

# ENR THE GLOBAL SOURCEBOOK

## Big-Picture Challenges Are Changing Project Priorities

As world leaders look to address the growing urgency of an energy transition, climate change and decarbonization goals, Top 225 International Design Firms say resilient design is a bigger priority for projects.

“We know that resilience continues to be a key request for our global teams,” says Stantec President and CEO Gord Johnston. “This includes prevention and recovery-related services that are tied to extreme weather events.”

With an uptick in conversations around design resilience, firms are also looking to grow their teams to meet service demands. At Dewan Architects + Engineers, CEO Ammar Al Assam says that climate resilience has always been a part of the firm’s portfolio.

Still, a greater awareness of environmental and energy-specific ratings systems have changed the depth of the firm’s work. “More regulations are still needed for widespread effectiveness,” he adds.

As climate change effects compound on a global scale, “construction faces a pivotal moment,” says Surbana Jurong Group CEO Sean Chiao.

“Rising temperatures threaten essential materials such as concrete and steel during transit, prompting an urgent need for innovative solutions,” he points out. “Embracing the call to ‘build back better,’ the



**FLOATING** Eiffage is part of the consortium working on the floating LNG terminal portion of the Greater Tortue Ahmeyim project off the West African coast.

construction industry is ushering in a new era of sustainable design and engineering.”

Last year, Top 225 company revenue increased 8.8%, to \$73.6 billion, with median revenue going up about 1.82% to \$48.7 million. Nearly three-quarters of the 213 design firms that filed last year reported an increase in revenue from 2022 to 2023. Among the 185 companies that provided backlog data, 74.1% said the results were higher than what they reported on the previous list—rising from the 68.9% that reported an increase from 2021 to 2022.

Revenue numbers for Top 250 International Contractors also increased last year. Their home country revenue rose 7.7% to \$428.5 billion—despite a challenging storm of inflation, skilled labor shortages and supply chain gaps. Amid severe winds of change, firms say backlogs are steady thanks to relationships they have cultivated overseas.

In a market plagued by uncertainty, having established local relationships abroad can be a competitive edge, says M. Engin Günindi, director of business development at FEKA İnşaat ve Sanayi Ticaret A.Ş. For many contractors, those relationships begin in their home countries.

“Providing solutions that ensure the functionality of the project without compromising quality or technical requirements, and striving to achieve the utmost effort within contract boundaries to satisfy our clients is the best response we can give to the question, ‘Why FEKA?’” he says.

Every market can have its own unique entrance parameters, so contractors should be selective, explains

Waleed Lotfy, Petrojet chairman and managing director. “In-depth market study is definitely key in realizing a sustainable and profitable presence

in any new market,” he says, which can include a study of local laws, regulations and culture.

Cultural integration has enabled TAV to expand its airport business, says Chairman M. Sani Şener. “In today’s world, you can transfer capital, goods and know-how between geographies, but you can’t transfer culture,” he says. “You can only integrate cultures, crucial for business success.”

By Emell Adolphus and Jonathan Keller





**RECORD BREAKER** When completed in 2026, the 650-ft-high Riviera Tower will be the tallest building in Greece.

## Athens Tower to Rise 650 ft

### \$360-million residential building to include 169 apartments

**B**ouygues Bâtiment International, a subsidiary of Bouygues Construction, and partner Intrakat, broke ground recently on the Riviera Tower, a \$360-million residential tower in Athens, Greece. When completed in 2026, the 650-ft-high building will be the tallest tower in Greece. The 50-story building will include 169 apartments. Designed by Foster+Partners, the design emphasizes the place of nature within the building itself and in its surrounding area. Buro Happold is the project's structural engineer. The design connects two towers with a spine composed of high-rise gardens and infinity-edge swimming pools alternating on each of the floors.

Seismic resilience is another critical component of the design. Beyond the structural challenges associated with tall buildings, the team is tasked with balancing aesthetic requirements with low-carbon standards. Toward that goal, the team worked with Greek suppliers for a year on new cement and concrete formulations. The project is targeting LEED Gold certification. At its peak, the site will employ 1,000 people. The Riviera Tower is part of an urban regeneration program, known as “the Ellenikon,” developed by Lamda Development, which aims to transform the former Athens International Airport site and several adjacent areas used during the 2004 Olympic Games into a showcase for 21st-century Greece. ■

*By Bruce Buckley*

#### UNITED KINGDOM

##### US AIR FORCE INFRASTRUCTURE

Skanska and Black & Veatch signed a contract with the Defence Infrastructure Organisation, acting on behalf of the U.S. Air Force, for the design and construction of a new facility at RAF Molesworth in Cambridgeshire, U.K. Skanska's portion of the contract is valued at \$193 million. Skanska will deliver U.S. Air Force European Infrastructure Consolidation works for the U.S. military based at RAF Molesworth. The work involves construction of a new two-story building along with delivery of supporting infrastructure and a warehouse facility. Design work is currently underway, with construction on site scheduled to begin in the spring of 2024. Completion is expected by the summer of 2028.



#### GERMANY

##### Frankfurt Judiciary Center

Hochtief was awarded a PPP contract to expand the Frankfurt am Main judiciary center in Germany. The two new buildings will house several courts, public prosecutors' offices and judicial authorities. Hochtief is scheduled to complete the buildings—with a combined area of 415,000 sq ft—by mid-2027 and subsequently operate them for a period of 30 years. On each building Hochtief will install large-scale photovoltaic systems. The buildings will be supplied with district heating to be fed into the rooms through heating and cooling floors.

#### AUSTRALIA

##### Apartment Development

Lendlease and Daiwa House Australia broke ground on a \$650-million build-to-rent apartment development in Melbourne. Lendlease will develop, construct and act as investment manager for the project. The development will include 797 residences in a mix of studio, one-, two- and three-bedroom apartments spanning 45 levels. Residents will have access to amenities and communal spaces including a lap pool, bowling alley, co-working space, virtual sports and game rooms, a cinema, and a gym with spa, sauna and steam rooms. The project is targeting 5 Star Green Star Design & As Built v1.3 rating. Resident occupancy is scheduled for early 2026.

#### FRANCE

##### Oncology Innovation Building

Eiffage Construction, a subsidiary of Eiffage, broke ground on a 270,000-sq-ft oncology innovation building for Kadans Science Partner on the Campus Grand Parc in Villejuif, France. Baumschlager Eberle and SAME Architectes started design of the project in July. The design includes three buildings ranging from seven to nine stories high. The future complex will be built on a shared four-story base around a central island, designed to promote interaction and exchanges. The design includes reception halls, a restaurant, multi-use hall and shared terrace. Two basement levels are dedicated to parking. The project is targeting Breeam International Excellent certification, the E+C- Label at E2C1 level and the WiredScore Silver Label.

## Top International Contractors

GENERAL BUILDING		
RANK	FIRM	REVENUE (\$ MIL.)*
1	GRUPO ACS/HOCHTIEF	13,584.5
2	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	9,502.2
3	SKANSKA AB	5,621.6
4	BOUYGUES	4,924.0
5	STRABAG SE	4,804.1
6	KAJIMA CORP.	3,241.6
7	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	2,619.7
8	PCL CONSTRUCTION ENTERPRISES	2,353.5
9	OBAYASHI CORP.	2,099.0
10	LENLEASE	2,043.0
11	VINCI	1,758.0
12	CHINA RAILWAY CONSTRUCTION CORP. LTD.	1,645.0
13	EFFAGE	1,540.0
14	BESIX	1,525.6
15	FERROVIAL	1,478.0
16	ORASCOM CONSTRUCTION PLC	1,438.0
17	RENAISSANCE CONSTRUCTION	1,209.0
18	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	1,095.2
19	SHAPOORJI PALLONJI & CO. PRIVATE LTD.	924.8
20	ANT YAPI INDUSTRY & TRADE INC.	840.0
21	PORR AG	825.5
22	CHINA RAILWAY GROUP LTD.	809.4
23	BL HARBERT INTERNATIONAL	798.7
24	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	790.9
25	CHINA METALLURGICAL GROUP CORP.	771.1
26	POWER CONSTRUCTION CORP. OF CHINA	725.4
27	GRAHAM	630.0
28	QINGJIAN GROUP CO. LTD.	611.5
29	STO BUILDING GROUP	563.0
30	LIMAK INSAAT SANAYI VE TICARET AS	558.0
31	WEBUILD SPA	529.5
32	ASLAN YAPI VE TICARET AS	524.7
33	ENKA INSAAT VE SANAYI AS	518.7
34	ESTA INSAAT SANAYI LOJISTIK VE DIS TICARET AS	492.9
35	XPCC CONSTRUCTION & ENGINEERING (GROUP) CO. LTD.	490.7
36	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	465.8
37	PENTA-OCEAN CONSTRUCTION CO. LTD.	440.7
38	ELECTRA LTD.	414.8
39	GS ENGINEERING & CONSTRUCTION	407.9
40	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	382.7
41	KUZU GROUP	375.0
42	ACCIONA	361.0
43	IMPRESA PIZZAROTTI & C. SPA	359.8
44	SHIMIZU CORP.	352.9
45	CADDELL CONSTRUCTION	347.1
46	YANJIAN GROUP CO. LTD.	337.8
47	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	337.8
48	TAKENAKA CORP.	330.0
49	MOTA-ENGIL	330.0
50	CHINA NATIONAL MACHINERY INDUSTRY CORP.	309.3

## Top International Design Firms

GENERAL BUILDING		
RANK	FIRM	REVENUE (\$ MIL.)*
1	WSP GLOBAL INC.	1,314.6
2	SIDARA	1,129.7
3	ARCADIS NV	1,126.8
4	AECOM	920.6
5	STANTEC INC.	812.8
6	SWECO AB	739.0
7	ARUP GROUP LTD.	696.7
8	ATKINSREALIS	606.9
9	RAMBOLL GROUP A/S	442.1
10	JACOBS SOLUTIONS INC.	353.6
11	TETRA TECH	321.0
12	GENSLER	296.1
13	SURBANA JURONG PRIVATE LTD.	284.0
14	EGIS	240.4
15	AFRY	228.0
16	MEINHARDT GROUP INTERNATIONAL	197.3
17	FUGRO NV	193.2
18	ARTELIA	180.1
19	EXP	162.0
20	COWI A/S	160.8
21	KHATIB & ALAMI	156.2
22	HDR	150.4
23	NIPPON KOEI GROUP	146.2
24	MOTT MACDONALD	146.1
25	PAGE SOUTHERLAND PAGE INC.	144.0
26	GHD	141.4
27	EHAFF CONSULTING ENGINEERS	136.3
28	SKIDMORE OWINGS & MERRILL	113.1
29	AURECON	102.3
30	NORR	94.7
31	POPULOUS	88.1
32	WOOD	84.4
33	HOK	82.7
34	TPF SA	74.2
35	CTI ENGINEERING GROUP	70.1
36	PERKINS EASTMAN	66.3
37	DEWAN ARCHITECTS + ENGINEERS	63.3
38	NKY ARCHITECTS AND ENGINEERS	60.2
39	WORLEY LTD.	59.0
40	KEO INTERNATIONAL CONSULTANTS	58.6
41	SSH	57.6
42	KOHN PEDERSEN FOX	56.5
43	HKS	55.4
44	JENSEN HUGHES	50.4
45	DREES & SOMMER	50.0
46	PARSONS CORP.	48.8
47	ARCHITECTURE & PLANNING GROUP	48.7
48	THORNTON TOMASETTI	46.5
49	BLACK & VEATCH	45.6
50	IDOM	44.7

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM GENERAL BUILDING AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
\*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.



## Top International Contractors

COMMERCIAL OFFICES AND BANKS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	4,119.0
2	SKANSKA AB	1,505.6
3	STO BUILDING GROUP	515.0
4	LENLEASE	509.0
5	OBAYASHI CORP.	481.0
6	CHINA RAILWAY CONSTRUCTION CORP. LTD.	477.0
7	PCL CONSTRUCTION ENTERPRISES	454.8
8	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	450.1
9	KAJIMA CORP.	313.5
10	ENKA INSAAT VE SANAYI AS	168.5
11	PENTA-OCEAN CONSTRUCTION CO. LTD.	161.8
12	SHANGHAI CONSTRUCTION GROUP CO. LTD.	125.5
13	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	116.2
14	SHIMIZU CORP.	105.4
15	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	93.0
16	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	85.0
17	BAUER AG	84.4
18	SACYR	69.9
19	MAPA INSAAT VE TICARET AS	61.6
20	SHENYANG YUANDA ALUMINUM INDUS. ENG'G CO. LTD.	51.7
21	TAISEI CORP.	50.0
22	CHINA METALLURGICAL GROUP CORP.	49.6
23	ELECTRA LTD.	37.2
24	CONSOLIDATED CONTRACTORS GROUP	36.6
25	IMPRESA PIZZAROTTI & C. SPA	34.7

GOVERNMENT OFFICES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	BL HARBERT INTERNATIONAL	790.7
2	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	757.8
3	GRUPO ACS/HOCHTIEF	754.3
4	CHINA RAILWAY GROUP LTD.	601.1
5	PCL CONSTRUCTION ENTERPRISES	423.9
6	CADDELL CONSTRUCTION	347.1
7	CHINA RAILWAY CONSTRUCTION CORP. LTD.	336.0
8	LENLEASE	228.0
9	FLUOR	202.0
10	ENKA INSAAT VE SANAYI AS	154.2
11	SKANSKA AB	145.6
12	PARSONS CORP.	139.5
13	PENTA-OCEAN CONSTRUCTION CO. LTD.	134.8
14	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	121.5
15	DPR CONSTRUCTION	103.4
16	SHANXI CONSTRUCTION INVESTMENT GROUP CO. LTD.	93.5
17	GAP INSAAT YATIRIM VE DIS TICARET AS	93.2
18	YANJIAN GROUP CO. LTD.	76.5
19	TIANYUAN CONSTRUCTION GROUP CO. LTD.	60.0
20	WEBUILD SPA	49.1
21	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	48.0
22	PER AARSLEFF HOLDING A/S	46.2
23	OBAYASHI CORP.	45.0
24	ATKINSREALIS	44.6
25	KAJIMA CORP.	42.9

## Top International Design Firms

COMMERCIAL OFFICES AND BANKS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	263.0
2	SIDARA	227.0
3	ARCADIS NV	218.8
4	ARUP GROUP LTD.	188.7
5	GENSLER	155.5
6	AECOM	108.1
7	STANTEC INC.	81.0
8	TETRA TECH	65.0
9	SURBANA JURONG PRIVATE LTD.	54.8
10	AFRY	46.6
11	JACOBS SOLUTIONS INC.	38.8
12	RAMBOLL GROUP A/S	36.5
13	MEINHARDT GROUP INTERNATIONAL	33.5
14	ATKINSREALIS	28.3
15	KOHN PEDERSEN FOX	22.8
16	NORR	21.9
17	NIPPON KOEI GROUP	21.1
18	ARTELIA	20.0
19	CTI ENGINEERING GROUP	19.1
20	GRUPO ACS/HOCHTIEF	19.0
21	EXP	18.9
22	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	17.4
23	THORNTON TOMASETTI	16.9
24	HDR	13.8
25	COWI A/S	11.8

GOVERNMENT OFFICES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ATKINSREALIS	268.4
2	WSP GLOBAL INC.	236.7
3	TETRA TECH	175.0
4	AECOM	164.2
5	ARCADIS NV	161.7
6	JACOBS SOLUTIONS INC.	153.7
7	ARUP GROUP LTD.	139.9
8	PAGE SOUTHERLAND PAGE INC.	79.0
9	SIDARA	59.1
10	BLACK & VEATCH	45.6
11	RAMBOLL GROUP A/S	43.8
12	STANTEC INC.	41.4
13	ASSYSTEM	34.0
14	KHATIB & ALAMI	32.9
15	AFRY	25.6
16	EXP	24.5
17	EGIS	21.3
18	STANLEY CONSULTANTS	18.1
19	THORNTON TOMASETTI	15.5
20	HDR	15.3
21	ORIENTAL CONSULTANTS GLOBAL (OCHD)	15.3
22	MOTT MACDONALD	13.5
23	NORR	13.2
24	ECG ENGINEERING CONSULTANTS GROUP SA	12.8
25	SURBANA JURONG PRIVATE LTD.	12.4

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## Top International Contractors

EDUCATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	1,467.0
2	SKANSKA AB	1,065.6
3	POWER CONSTRUCTION CORP. OF CHINA	213.9
4	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	139.3
5	PCL CONSTRUCTION ENTERPRISES	138.7
6	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	88.1
7	CHINA NATIONAL MACHINERY INDUSTRY CORP.	82.1
8	WEIHAI INTERNATIONAL ECONOMIC & TECHNICAL COOPERATIVE CO. LTD.	65.8
9	OHLA	58.2
10	KAJIMA CORP.	54.3
11	OBAYASHI CORP.	52.0
12	CHINA RAILWAY CONSTRUCTION CORP. LTD.	42.0
13	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	42.0
14	THE WALSH GROUP	40.0
15	PENTA-OCEAN CONSTRUCTION CO. LTD.	39.8
16	ANHUI CONSTRUCTION ENGINEERING GROUP CO. LTD.	38.5
17	SUMMA TURIZM YATIRIMCILIGI AS	36.0
18	YUNNAN CONST. AND INVEST. HOLDING GRP. CO. LTD.	35.1
19	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	33.1
20	XPCC CONSTRUCTION & ENGINEERING (GROUP) CO. LTD.	32.6
21	CHINA ENERGY ENGINEERING CORP. LTD.	32.4
22	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	31.5
23	YANJIAN GROUP CO. LTD.	27.1
24	SACYR	26.1
25	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	26.0

MULTI-UNIT RESIDENTIAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	4,655.8
2	OBAYASHI CORP.	727.0
3	KAJIMA CORP.	712.1
4	SKANSKA AB	700.4
5	QINGJIAN GROUP CO. LTD.	561.4
6	GRUPO ACS/HOCHTIEF	553.2
7	LENLEASE	528.0
8	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	391.0
9	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	389.3
10	GS ENGINEERING & CONSTRUCTION	381.7
11	CHINA RAILWAY CONSTRUCTION CORP. LTD.	374.0
12	LONGXIN CONSTRUCTION GROUP CO. LTD.	296.6
13	CHINA METALLURGICAL GROUP CORP.	278.6
14	LIMAK INSAAT SANAYI VE TICARET AS	258.0
15	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	221.1
16	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	212.0
17	CHINA RAILWAY GROUP LTD.	208.3
18	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	202.7
19	PCL CONSTRUCTION ENTERPRISES	197.4
20	ESTA INSAAT SANAYI LOJISTIK VE DIS TICARET AS	185.5
21	CHINA NATIONAL MACHINERY INDUSTRY CORP.	172.7
22	JIANGSU TONGZHOU NO.4 CONSTR. GROUP CO. LTD.	165.4
23	YANJIAN GROUP CO. LTD.	161.3
24	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	138.0
25	WEBUILD SPA	133.2

## Top International Design Firms

EDUCATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SIDARA	169.6
2	WSP GLOBAL INC.	121.2
3	STANTEC INC.	83.2
4	ATKINSREALIS	78.6
5	ARUP GROUP LTD.	65.1
6	ARCADIS NV	65.1
7	RAMBOLL GROUP A/S	46.8
8	AECOM	42.8
9	MOTT MACDONALD	27.6
10	EXP	24.5
11	SURBANA JURONG PRIVATE LTD.	18.4
12	AFRY	16.4
13	ARABTECH JARDANEH	16.0
14	TPF SA	15.9
15	MEINHARDT GROUP INTERNATIONAL	15.8
16	NIPPON KOEI GROUP	14.4
17	HDR	10.5
18	ARTELIA	9.3
19	COWI A/S	8.2
20	SSH	8.1
21	DEWAN ARCHITECTS + ENGINEERS	7.9
22	JACOBS SOLUTIONS INC.	7.5
23	POWER CONSTRUCTION CORP. OF CHINA	7.2
24	NORR	6.9
25	AYERS SAINT GROSS	6.5

MULTI-UNIT RESIDENTIAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	185.5
2	STANTEC INC.	126.3
3	ATKINSREALIS	109.0
4	AECOM	105.0
5	ARCADIS NV	96.4
6	SIDARA	76.5
7	SURBANA JURONG PRIVATE LTD.	76.2
8	RAMBOLL GROUP A/S	50.0
9	KHATIB & ALAMI	41.9
10	ARUP GROUP LTD.	38.4
11	EXP	38.1
12	AFRY	27.8
13	PARSONS CORP.	25.6
14	CTI ENGINEERING GROUP	23.7
15	EHA CONSULTING ENGINEERS	23.6
16	MOTT MACDONALD	21.0
17	NORR	19.5
18	COWI A/S	18.1
19	KEO INTERNATIONAL CONSULTANTS	17.1
20	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	14.8
21	TPF SA	14.7
22	ASSOCIATED CONSULTING ENGINEERS	12.5
23	SSH	12.1
24	KOHN PEDERSEN FOX	12.1
25	JACOBS SOLUTIONS INC.	11.9

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\*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

HOTELS, MOTELS AND CONVENTION CENTERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	660.4
2	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	403.6
3	GRUPO ACS/HOCHTIEF	292.0
4	OBAYASHI CORP.	201.0
5	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	197.6
6	SKANSKA AB	179.9
7	KAJIMA CORP.	149.4
8	SHANGHAI CONSTRUCTION GROUP CO. LTD.	120.0
9	XPCC CONSTRUCTION & ENGINEERING (GROUP) CO. LTD.	115.3
10	PCL CONSTRUCTION ENTERPRISES	112.6
11	SUMMA TURIZM YATIRIMCILIGI AS	107.4
12	CHINA NATIONAL AERO-TECHNOLOGY INT'L ENG'G CORP.	83.4
13	SSANGYONG ENGINEERING & CONSTRUCTION CO. LTD.	78.8
14	LENLEASE	67.0
15	CITIC CONSTRUCTION CO. LTD.	63.2
16	ANHUI CONSTRUCTION ENGINEERING GROUP CO. LTD.	60.5
17	SHENYANG YUANDA ALUMINUM INDUS. ENG'G CO. LTD.	56.2
18	ZAFER TAAHHUT INSAAT VE TICARET AS	49.1
19	CHINA RAILWAY CONSTRUCTION CORP. LTD.	48.0
20	SHIMIZU CORP.	45.3
21	LARSEN & TOUBRO LTD.	37.5
22	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	33.1
23	CONSOLIDATED CONTRACTORS GROUP	32.1
24	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	24.8
25	CHINA METALLURGICAL GROUP CORP.	21.5

RETAIL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	443.1
2	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	441.2
3	CONSOLIDATED CONTRACTORS GROUP	206.6
4	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	172.7
5	SHANDONG ZIJIAN CONSTRUCTION GROUP CO. LTD.	169.7
6	TAISEI CORP.	167.0
7	JIANGSU ZHONGNAN CONSTRUCTION INDUSTRY GROUP CO.LTD	147.8
8	SKANSKA AB	135.2
9	OBAYASHI CORP.	117.0
10	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	97.6
11	SHANDONG HI-SPEED GROUP CO. LTD.	88.7
12	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	79.3
13	PCL CONSTRUCTION ENTERPRISES	73.3
14	BAUER AG	63.3
15	GRUPO ACS/HOCHTIEF	47.0
16	CHINA METALLURGICAL GROUP CORP.	43.6
17	JIANGXI WATER AND HYDROPOWER CONSTR. CO. LTD.	42.1
18	YANJIAN GROUP CO. LTD.	42.0
19	ZHONGMEI ENGINEERING GROUP LTD.	31.0
20	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	26.8
21	WEIHAI INTERNATIONAL ECONOMIC & TECHNICAL COOPERATIVE CO. LTD.	26.5
22	LIMAK INSAAT SANAYI VE TICARET AS	25.0
23	CHINA ENERGY ENGINEERING CORP. LTD.	23.2
24	KAJIMA CORP.	23.1
25	SHANXI CONSTRUCTION INVESTMENT GROUP CO. LTD.	23.0

## Top International Design Firms

HOTELS, MOTELS AND CONVENTION CENTERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ATKINSREALIS	82.5
2	EGIS	71.2
3	WSP GLOBAL INC.	59.2
4	WATG	55.4
5	SIDARA	42.2
6	AECOM	35.2
7	ARUP GROUP LTD.	33.9
8	ARCADIS NV	32.8
9	EHAF CONSULTING ENGINEERS	32.7
10	RAMBOLL GROUP A/S	31.1
11	HKS	24.6
12	KHATIB & ALAMI	24.6
13	GENSLER	21.6
14	ARTELIA	20.5
15	DEWAN ARCHITECTS + ENGINEERS	19.7
16	REBEL DESIGN+GROUP	14.2
17	STANTEC INC.	14.0
18	MEINHARDT GROUP INTERNATIONAL	13.8
19	SSH	13.0
20	TECNICA Y PROYECTOS SA (TYPESA)	12.0
21	AFRY	8.3
22	POPULOUS	7.6
23	COWI A/S	6.0
24	KEO INTERNATIONAL CONSULTANTS	5.7
25	IDOM	5.1

RETAIL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV	277.6
2	WSP GLOBAL INC.	75.2
3	SIDARA	73.5
4	AFRY	48.7
5	STANTEC INC.	33.5
6	TETRA TECH	25.0
7	GENSLER	22.0
8	EHAF CONSULTING ENGINEERS	18.3
9	RAMBOLL GROUP A/S	17.4
10	NIPPON KOEI GROUP	17.2
11	ATKINSREALIS	16.1
12	AECOM	14.9
13	KEO INTERNATIONAL CONSULTANTS	14.7
14	ARTELIA	14.7
15	CTI ENGINEERING GROUP	13.7
16	MOTT MACDONALD	13.1
17	DEWAN ARCHITECTS + ENGINEERS	12.5
18	DEERNS	12.4
19	MG2	12.3
20	KHATIB & ALAMI	11.9
21	MEINHARDT GROUP INTERNATIONAL	9.9
22	ASSOCIATED CONSULTING ENGINEERS	6.5
23	SURBANA JURONG PRIVATE LTD.	6.3
24	JACOBS SOLUTIONS INC.	6.0
25	MBH ARCHITECTS	5.0

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM GENERAL BUILDING AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.

\*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

CORRECTIONAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LENDLEASE	176.0
2	GRUPO ACS/HOCHTIEF	124.0
3	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	63.4
4	CHINA RAILWAY CONSTRUCTION CORP. LTD.	22.0
5	PCL CONSTRUCTION ENTERPRISES	11.5

HEALTH CARE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	2,815.6
2	SKANSKA AB	1,393.9
3	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	1,021.4
4	PCL CONSTRUCTION ENTERPRISES	805.8
5	KAJIMA CORP.	522.6
6	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	338.3
7	CHINA METALLURGICAL GROUP CORP.	294.1
8	LENDLEASE	279.0
9	IMPRESA PIZZAROTTI & C. SPA	276.1
10	SACYR	201.1
11	OHLA	163.6
12	ENKA INSAAT VE SANAYI AS	152.2
13	WEBUILD SPA	152.0
14	POWER CONSTRUCTION CORP. OF CHINA	121.2
15	OBAYASHI CORP.	114.0
16	CHINA RAILWAY CONSTRUCTION CORP. LTD.	112.0
17	SHIMIZU CORP.	110.1
18	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	95.7
19	LARSEN & TOUBRO LTD.	88.7
20	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	83.0
21	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	74.0
22	SSANGYONG ENGINEERING & CONSTRUCTION CO. LTD.	71.0
23	XPCC CONSTRUCTION & ENGINEERING (GROUP) CO. LTD.	67.2
24	GAP INSAAT YATIRIM VE DIS TICARET AS	54.0
25	SHANXI CONSTRUCTION INVESTMENT GROUP CO. LTD.	42.2

DISTRIBUTION & WAREHOUSES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	KAJIMA CORP.	786.5
2	GRUPO ACS/HOCHTIEF	279.5
3	ELECTRA LTD.	173.3
4	SKANSKA AB	118.8
5	PCL CONSTRUCTION ENTERPRISES	88.7
6	OBAYASHI CORP.	69.0
7	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	47.8
8	PENTA-OCEAN CONSTRUCTION CO. LTD.	43.4
9	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	38.0
10	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	37.1

## Top International Design Firms

CORRECTIONAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	AECOM	19.1
2	WSP GLOBAL INC.	10.8
3	SIDARA	9.4
4	NORR	6.5
5	RAMBOLL GROUP A/S	3.2

HEALTH CARE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SIDARA	241.2
2	WSP GLOBAL INC.	215.1
3	STANTEC INC.	126.9
4	AECOM	99.8
5	HDR	94.8
6	JACOBS SOLUTIONS INC.	92.5
7	ARUP GROUP LTD.	81.3
8	RAMBOLL GROUP A/S	65.4
9	ARCADIS NV	57.2
10	TETRA TECH	56.0
11	EHAF CONSULTING ENGINEERS	44.4
12	COWI A/S	42.3
13	AFRY	40.3
14	MEINHARDT GROUP INTERNATIONAL	35.5
15	MOTT MACDONALD	32.2
16	EXP	29.1
17	NIPPON KOEI GROUP	22.9
18	SURBANA JURONG PRIVATE LTD.	22.0
19	EGIS	20.7
20	ATKINSREALIS	20.5
21	ARABTECH JARDANEH	19.1
22	NORR	18.6
23	ARTELIA	18.1
24	HKS	17.4
25	TPF SA	17.4

DISTRIBUTION & WAREHOUSES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	STANTEC INC.	74.3
2	RAMBOLL GROUP A/S	63.4
3	WSP GLOBAL INC.	46.8
4	ARCADIS NV	43.8
5	ROYAL HASKONINGDHV	30.0
6	MEINHARDT GROUP INTERNATIONAL	13.8
7	ARTELIA	13.3
8	SIDARA	13.2
9	TPF SA	5.5
10	AECOM	5.0

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 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

SPORTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	503.0
2	LIMAK INSAAT SANAYI VE TICARET AS	150.0
3	CHINA RAILWAY CONSTRUCTION CORP. LTD.	104.0
4	SKANSKA AB	90.7
5	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	89.0
6	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	71.4
7	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	64.8
8	OBAYASHI CORP.	51.0
9	ESTA INSAAT SANAYI LOJISTIK VE DIS TICARET AS	50.8
10	SUMMA TURIZM YATIRIMCILIGI AS	46.8
11	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	42.0
12	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	37.7
13	KAJIMA CORP.	31.9
14	PCL CONSTRUCTION ENTERPRISES	28.7
15	WEBUILD SPA	19.6

ENTERTAINMENT & THEME PARKS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	526.0
2	ESTA INSAAT SANAYI LOJISTIK VE DIS TICARET AS	249.2
3	OBAYASHI CORP.	102.0
4	LARSEN & TOUBRO LTD.	77.5
5	CHINA METALLURGICAL GROUP CORP.	54.9
6	KAJIMA CORP.	53.5
7	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	40.6
8	SKANSKA AB	37.9
9	SEMBOL ULUSLARARASI YATIRIM TARIM PEYZAJ INSAAT	33.9
10	PENTA-OCEAN CONSTRUCTION CO. LTD.	32.9

RELIGIOUS & CULTURAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	261.0
2	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	224.8
3	SKANSKA AB	182.1
4	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	126.1
5	HASKELL	84.1
6	SEMBOL ULUSLARARASI YATIRIM TARIM PEYZAJ INSAAT	52.0
7	OBAYASHI CORP.	38.0
8	YANJIAN GROUP CO. LTD.	26.8
9	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	24.9
10	KAJIMA CORP.	15.8
10	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	15.8

\*Tie for 10th

## Top International Design Firms

SPORTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POPULOUS	59.5
2	COWI A/S	48.3
3	SIDARA	44.9
4	WSP GLOBAL INC.	35.8
5	ARUP GROUP LTD.	26.6
6	STANTEC INC.	20.1
7	MOTT MACDONALD	14.8
8	IDOM	13.9
9	EGIS	12.9
10	TECNICA Y PROYECTOS SA (TYPSA)	11.6
11	ARTELIA	10.9
12	RAMBOLL GROUP A/S	7.8
13	AECOM	6.3
14	AFRY	5.2
15	EHA CONSULTING ENGINEERS	5.1

ENTERTAINMENT & THEME PARKS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	JACOBS SOLUTIONS INC.	39.4
2	SIDARA	24.0
3	EXP	22.3
4	WSP GLOBAL INC.	20.6
5	AECOM	20.0
6	GENSLER	15.7
7	EGIS	15.5
8	SURBANA JURONG PRIVATE LTD.	15.3
9	POPULOUS	14.0
10	ARCADIS NV	10.4

RELIGIOUS & CULTURAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SIDARA	94.7
2	NIPPON KOEI GROUP	35.1
3	AECOM	33.7
4	ARUP GROUP LTD.	27.4
5	WSP GLOBAL INC.	26.5
6	RAMBOLL GROUP A/S	19.5
7	STANTEC INC.	15.0
8	SURBANA JURONG PRIVATE LTD.	10.4
9	COWI A/S	6.0
10	DEWAN ARCHITECTS + ENGINEERS	6.0

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## Top International Contractors

MIXED USE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	814.0
2	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	354.7
3	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	291.5
4	KAJIMA CORP.	216.8
5	LENLEASE	113.0
6	OBAYASHI CORP.	102.0
7	HYUNDAI ENGINEERING CO. LTD.	97.6
8	CHINA GEO-ENGINEERING CORP.	83.3
9	SICHUAN ROAD AND BRIDGE (GROUP) CO. LTD.	57.1
10	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	38.3
11	LIMAK INSAAT SANAYI VE TICARET AS	35.0
12	CITIC CONSTRUCTION CO. LTD.	25.0
13	LARSEN & TOUBRO LTD.	23.2
14	OHLA	21.6
15	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	19.8

R & D		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	221.0
2	WEBUILD SPA	156.3
3	XPCC CONSTRUCTION & ENGINEERING (GROUP) CO. LTD.	133.7
4	CHINA NATIONAL AERO-TECHNOLOGY INT'L ENG'G CORP.	32.6
5	GS ENGINEERING & CONSTRUCTION	26.2

## Top International Design Firms

MIXED USE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	AECOM	266.5
2	STANTEC INC.	189.3
3	ARCADIS NV	151.4
4	EGIS	98.9
5	ARUP GROUP LTD.	63.8
6	SURBANA JURONG PRIVATE LTD.	60.3
7	ARTELIA	59.8
8	SIDARA	54.6
9	MEINHARDT GROUP INTERNATIONAL	54.3
10	KOHN PEDERSEN FOX	47.4
11	GENSLER	44.4
12	RAMBOLL GROUP A/S	31.7
13	DORSCH HOLDING GMBH	25.0
14	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	21.4
15	DISTANCE STUDIO CONSULTANTS	10.7

R & D		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARUP GROUP LTD.	18.8
2	GENSLER	9.9
3	HDR	8.4
4	KOHN PEDERSEN FOX	5.5
5	RAMBOLL GROUP A/S	3.3

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**AUSTRALIA**

**Road-building Down Under**

Transport for New South Wales has tapped Vinci subsidiary Seymour White to build the 3.1-mile northern section of the M1 Pacific Motorway Extension, part of a corridor program to improve transport between Sydney and Brisbane. In a separate project for the agency, the contractor will upgrade a 4-mile section of Mulgoa Road, a key arterial in western Sydney. Total value of the two projects is \$260 million.

**PHILIPPINES**

**Keeping Manila Moving**

The Leighton-First Balfour Joint Venture has been tapped to construct a 5-mile section of the South Commuter Railway Project, the southern leg of a planned 91-mile rail network being created to ease road congestion around Manila. The new \$194-million project includes at-grade and viaduct railway track structures, three stations and associated mechanical and electrical systems. The joint venture is already at work on an adjacent \$283-million, 3.8-mile segment, the majority of which will be located underground.

**SAUDI ARABIA**

**New Rail Line Speeds to Sustainable Future**

A 35.4-mile high-speed rail line to be designed and built by a joint venture of Webuild and Shihb Al Jazira Contracting Company will serve Neom, a new sustainability-focused urban area being developed along the country's north Red Sea coast. The \$1.5-billion project includes two high-speed tracks capable of facilitating train speeds of more than 140 mph, as well as a pair of freight rail tracks, viaducts and underpasses.

**SPAIN**

**Natural Setting for a Freight-Passenger Rail Bridge**

Ferrovial is set to build a \$64-million rail bridge across the Ebro River in Spain's Navarra autonomous region. The nearly 2,300-ft long, 46-ft-wide structure will be part of the future Cantabria-Mediterranean corridor, which will connect the country's northern and Mediterranean coasts. A key challenge for the 3.5-year project will be integrating into the agricultural area's high-value ecosystem environment.

**NORWAY**

**SCANDINAVIAN P3 AIMS TO UPGRADE HIGHWAY IN \$1B VENTURE**

Construction is underway on the E10/rv. 85 road project, a \$1-billion public-private partnership involving the Norwegian Public Roads Administration and Skanska AB, which will design and construct a total of 51 miles of new and upgraded highway. The project includes seven new tunnels totaling nearly 17 miles, more than 20 bridges, pedestrian and cycling routes, rest areas and improved junctions and private road connections. Under a separate contract, Skanska will operate and maintain the completed highway for 15 years.



**\$14M**

Projected worldwide sales of electric vehicles in 2023, a 33% increase over the previous year.  
 - EVVolumes.com

**New Look for UK Gateway**

**Second phase of Manchester Airport expansion begins**



**NEW TERMINAL WORK TAKES OFF** Northwest England hub is meant to improve passenger experiences.

**M**anchester Airport in northwest England has begun the second phase of its \$1.6-billion program with construction of a new 12-gate pier for Terminal 2 by London-based lead contractor Mace Group Ltd. Set for completion in 2025, the new pier will accommodate a variety of aircraft types. Other elements include a second security hall, expanded departure lounge and airfield reconfigurations. Mace will apply a variety of construction techniques to reduce embodied carbon emissions by up to 40%, such as precast concrete, prefabricated building components and an innovative piling design that minimizes excavation, according to the airport. New facilities will include nearly 30 shops, bars and restaurants. ■

*By Jim Parsons*

## Top International Contractors

TRANSPORTATION		
RANK	FIRM	REVENUE (\$ MIL.)*
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	17,782.5
2	VINCI	14,738.0
3	BOUYGUES	11,904.0
4	GRUPO ACS/HOCHTIEF	10,797.5
5	STRABAG SE	8,850.6
6	CHINA RAILWAY CONSTRUCTION CORP. LTD.	6,748.0
7	FERROVIAL	6,101.1
8	CHINA RAILWAY GROUP LTD.	4,340.6
9	SKANSKA AB	4,045.5
10	SACYR	3,606.3
11	WEBUILD SPA	3,077.7
12	POWER CONSTRUCTION CORP. OF CHINA	3,064.2
13	PORR AG	2,783.1
14	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	2,607.5
15	ACCIONA	2,553.0
16	MOTA-ENGIL	1,968.0
17	EIFFAGE	1,910.0
18	OHLA	1,795.1
19	ROYAL BOSKALIS BV	1,549.0
20	BECHTEL	1,410.0
21	YAPI MERKEZI INSAAT VE SANAYI AS	1,393.9
22	ORASCOM CONSTRUCTION PLC	1,309.0
23	LIMAK INSAAT SANAYI VE TICARET AS	1,054.0
24	FCC SA	1,044.5
25	SAMSUNG C&T CORP.	1,032.0
26	DAEWOO ENGINEERING AND CONSTRUCTION CO. LTD.	811.2
27	ITINERA SPA	806.1
28	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	801.0
29	ZHONGMEI ENGINEERING GROUP LTD.	702.0
30	GS ENGINEERING & CONSTRUCTION	644.3
31	OBAYASHI CORP.	612.0
32	SHANDONG HI-SPEED GROUP CO. LTD.	560.7
33	CENGIZ CONSTRUCTION INDUSTRY & TRADE CO. INC.	543.2
34	GULERMAK	516.2
35	GHELLA SPA	504.0
36	RENAISSANCE CONSTRUCTION	495.6
37	CONSOLIDATED CONTRACTORS GROUP	492.7
38	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	492.6
39	PENTA-OCEAN CONSTRUCTION CO. LTD.	476.9
40	CHINA NATIONAL AERO-TECHNOLOGY INT'L ENG'G CORP.	462.8
41	ALARKO CONTRACTING GROUP	459.3
42	AFCONS INFRASTRUCTURE LTD.	450.7
43	TAV CONSTRUCTION	410.2
44	KIEWIT CORP.	402.1
45	SHANGHAI URBAN CONSTRUCTION (GROUP) CORP.	381.9
46	CHINA NATIONAL MACHINERY INDUSTRY CORP.	366.4
47	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	352.3
48	KOLIN INSAAT TURIZM SANAYI VE TICARET AS	322.0
49	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	311.8
50	IMPRESA PIZZAROTTI & C. SPA	311.3

## Top International Design Firms

TRANSPORTATION		
RANK	FIRM	REVENUE (\$ MIL.)*
1	WSP GLOBAL INC.	3,042.8
2	AECOM	1,762.8
3	ATKINSREALIS	1,415.6
4	JACOBS SOLUTIONS INC.	1,073.6
5	ARCADIS NV	935.2
6	ARUP GROUP LTD.	814.1
7	SIDARA	797.1
8	SYSTRA	761.0
9	EGIS	711.3
10	STANTEC INC.	701.9
11	MOTT MACDONALD	674.1
12	SWECO AB	418.0
13	RAMBOLL GROUP A/S	389.1
14	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	382.9
15	SURBANA JURONG PRIVATE LTD.	356.3
16	HATCH LTD.	309.0
17	COWI A/S	305.2
18	PARSONS CORP.	249.4
19	ORIENTAL CONSULTANTS GLOBAL (OCHD)	221.1
20	AFRY	217.0
21	HDR	207.1
22	TETRA TECH	190.0
23	EXP	187.7
24	TECNICA Y PROYECTOS SA (TYPESA)	186.9
25	GRUPO ACS/HOCHTIEF	173.4
26	AYESA	166.1
27	ROYAL HASKONINGDHV	163.0
28	WOOD	158.6
29	CHINA RAILWAY CONSTRUCTION CORP. LTD.	140.0
30	GHD	137.0
31	WORLEY LTD.	131.7
32	CHINA RAILWAY DESIGN CORP.	128.0
33	TPF SA	123.1
34	SENER GRUPO DE INGENIERÍA SA	122.4
35	AURECON	120.4
36	NIPPON KOEI GROUP	116.3
37	MEINHARDT GROUP INTERNATIONAL	97.0
38	JSTI GROUP	94.0
39	CTI ENGINEERING GROUP	89.2
40	SETEC	87.6
41	IDOM	74.5
42	KHATIB & ALAMI	74.0
43	ARTELIA	68.0
44	FUGRO NV	62.8
45	ITALCONSULT SPA	58.1
46	KIEWIT CORP.	55.9
47	CHODAI (PDT GROUP)	54.4
48	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	52.9
49	MORRISON HERSHFIELD	49.8
50	INGEROP	49.3

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## Top International Contractors

HIGHWAYS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	6,067.1
2	GRUPO ACS/HOCHTIEF	4,139.5
3	CHINA RAILWAY CONSTRUCTION CORP. LTD.	2,630.0
4	SACYR	2,351.3
5	WEBUILD SPA	1,665.2
6	CHINA RAILWAY GROUP LTD.	1,350.7
7	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	1,314.9
8	SKANSKA AB	1,112.2
9	POWER CONSTRUCTION CORP. OF CHINA	901.3
10	OHLA	807.5
11	ALARKO CONTRACTING GROUP	458.0
12	CENGIZ CONSTRUCTION INDUSTRY & TRADE CO. INC.	440.7
13	ZHONGMEI ENGINEERING GROUP LTD.	402.0
14	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	346.2
15	KOLIN INSAAT TURIZM SANAYI VE TICARET AS	322.0
16	LIMAK INSAAT SANAYI VE TICARET AS	296.0
17	CGCOC GROUP CO. LTD.	284.6
18	ONUR TAAHHUT TASIMACILIK INSAAT TIC. VE SANAYI AS	281.4
19	HUNAN ROAD & BRIDGE CONSTR. GROUP	230.1
20	JIANGXI CONSTRUCTION ENGINEERING (GROUP) CORP. LTD.	214.2
21	CHINA WU YI CO. LTD.	183.7
22	ENKA INSAAT VE SANAYI AS	183.7
23	CHINA GEO-ENGINEERING CORP.	179.7
24	GS ENGINEERING & CONSTRUCTION	178.2
25	CHINA METALLURGICAL GROUP CORP.	177.1

MARINE AND PORT FACILITIES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	5,087.8
2	POWER CONSTRUCTION CORP. OF CHINA	1,264.9
3	PENTA-OCEAN CONSTRUCTION CO. LTD.	396.5
4	CHINA RAILWAY CONSTRUCTION CORP. LTD.	296.0
5	NATIONAL MARINE DREDGING COMPANY (NMDC)	278.9
6	GRUPO ACS/HOCHTIEF	209.3
7	PER AARSLEFF HOLDING A/S	164.0
8	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	126.3
9	ILK CONSTRUCTION	120.2
10	AFCONS INFRASTRUCTURE LTD.	110.0
11	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	109.4
12	SOUTHLAND HOLDINGS	98.0
13	ENKA INSAAT VE SANAYI AS	76.9
14	OBAYASHI CORP.	70.0
15	CHINA RAILWAY GROUP LTD.	42.8
16	BAUER AG	41.9
17	SKANSKA AB	38.8
18	CHINA ENERGY ENGINEERING CORP. LTD.	30.9
19	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	29.2
20	KIEWIT CORP.	29.2
21	SHANDONG HI-SPEED DEJIAN GROUP CO. LTD.	27.3
22	YANJIAN GROUP CO. LTD.	20.7
23	KAJIMA CORP.	18.9
24	WEEKS MARINE INC.	17.6
25	SACYR	15.5

## Top International Design Firms

HIGHWAYS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	1,225.6
2	AECOM	778.5
3	ATKINSREALIS	605.3
4	ARCADIS NV	442.3
5	STANTEC INC.	397.5
6	EGIS	394.3
7	JACOBS SOLUTIONS INC.	364.8
8	SIDARA	228.6
9	SURBANA JURONG PRIVATE LTD.	215.6
10	RAMBOLL GROUP A/S	207.8
11	ARUP GROUP LTD.	155.6
12	MOTT MACDONALD	140.4
13	EXP	99.4
14	PARSONS CORP.	95.1
15	TETRA TECH	90.0
16	AFRY	89.8
17	CTI ENGINEERING GROUP	79.0
18	COWI A/S	65.6
19	HATCH LTD.	62.0
20	TPF SA	51.9
21	KHATIB & ALAMI	41.2
22	GRUPO ACS/HOCHTIEF	40.4
23	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	37.8
24	CDM SMITH	34.6
25	ORIENTAL CONSULTANTS GLOBAL (OCHD)	30.2

MARINE AND PORT FACILITIES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	321.9
2	WSP GLOBAL INC.	140.5
3	ROYAL HASKONINGDHV	87.4
4	JACOBS SOLUTIONS INC.	63.0
5	AECOM	52.9
6	RAMBOLL GROUP A/S	41.5
7	MOTT MACDONALD	36.6
8	SIDARA	33.5
9	STANTEC INC.	33.3
10	HATCH LTD.	31.0
11	TETRA TECH	30.0
12	ARTELIA	27.1
13	MOFFATT & NICHOL	26.6
14	ARCADIS NV	22.6
15	WORLEY LTD.	22.2
16	EGIS	19.9
17	KHATIB & ALAMI	17.4
18	TECNICA Y PROYECTOS SA (TYPSA)	16.8
19	ARUP GROUP LTD.	16.6
20	NIPPON KOEI GROUP	14.4
21	TRACTEBEL	12.0
22	ORIENTAL CONSULTANTS GLOBAL (OCHD)	10.9
23	ATKINSREALIS	9.4
24	PRDW GROUP	9.1
25	COWI A/S	8.6

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM TRANSPORTATION AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

AIRPORTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	1,424.1
2	LIMAK INSAAT SANAYI VE TICARET AS	707.0
3	BECHTEL	601.9
4	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	459.6
5	CHINA NATIONAL AERO-TECHNOLOGY INT'L ENG'G CORP.	453.2
6	POWER CONSTRUCTION CORP. OF CHINA	452.8
7	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	449.0
8	SKANSKA AB	385.5
9	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	359.5
10	SACYR	268.1
11	SUMMA TURIZM YATIRIMCILIGI AS	201.5
12	TAISEI CORP.	157.0
13	YUNNAN CONST. AND INVEST. HOLDING GRP. CO. LTD.	152.0
14	CHINA RAILWAY CONSTRUCTION CORP. LTD.	139.0
15	CHINA NATIONAL MACHINERY INDUSTRY CORP.	83.8
16	IC ICTAS INSAAT SANAYI VE TICARET AS	73.0
17	CHINA RAILWAY GROUP LTD.	57.6
18	SSANGYONG ENGINEERING & CONSTRUCTION CO. LTD.	50.9
19	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	45.4
20	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	37.2
21	CONSOLIDATED CONTRACTORS GROUP	31.9
22	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	31.0
23	SHANXI CONSTRUCTION INVESTMENT GROUP CO. LTD.	27.7
24	KAJIMA CORP.	24.4
25	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	23.8

MASS TRANSIT AND RAIL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	4,228.5
2	GRUPO ACS/HOCHTIEF	3,985.6
3	CHINA RAILWAY GROUP LTD.	2,687.8
4	CHINA RAILWAY CONSTRUCTION CORP. LTD.	2,560.0
5	SKANSKA AB	1,689.9
6	YAPI MERKEZI INSAAT VE SANAYI AS	1,365.2
7	WEBUILD SPA	1,272.0
8	SACYR	814.6
9	OHLA	676.8
10	BECHTEL	637.5
11	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	529.1
12	GHELLA SPA	411.0
13	POWER CONSTRUCTION CORP. OF CHINA	400.9
14	SHANGHAI URBAN CONSTRUCTION (GROUP) CORP.	381.9
15	GULERMAK	371.7
16	GS ENGINEERING & CONSTRUCTION	364.9
17	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	344.9
18	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	269.5
19	KIEWIT CORP.	269.0
20	RAILWORKS	254.5
21	CONSOLIDATED CONTRACTORS GROUP	253.8
22	CHINA NATIONAL MACHINERY INDUSTRY CORP.	250.9
23	POSCO ENGINEERING & CONSTRUCTION	208.0
24	IMPRESA PIZZAROTTI & C. SPA	205.2
25	SHIMIZU CORP.	189.4

## Top International Design Firms

AIRPORTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SIDARA	210.6
2	ARUP GROUP LTD.	165.6
3	AECOM	139.7
4	ATKINSREALIS	136.9
5	WSP GLOBAL INC.	115.0
6	STANTEC INC.	57.8
7	MOTT MACDONALD	52.5
8	EGIS	50.0
9	JACOBS SOLUTIONS INC.	46.6
10	MEINHARDT GROUP INTERNATIONAL	43.7
11	ROYAL HASKONINGDHV	36.8
12	AFRY	20.7
13	TECNICA Y PROYECTOS SA (TYPSA)	19.6
14	RAMBOLL GROUP A/S	16.5
15	SURBANA JURONG PRIVATE LTD.	13.8
16	ARCADIS NV	12.9
17	KOHN PEDERSEN FOX	11.3
18	NIPPON KOEI GROUP	10.6
19	TETRA TECH	10.0
20	EXP	9.2
21	HEERIM ARCHITECTS & PLANNERS CO. LTD.	8.8
22	CHINA NATIONAL MACHINERY INDUSTRY CORP.	8.1
23	ORIENTAL CONSULTANTS GLOBAL (OCHD)	7.2
24	WORLEY LTD.	5.9
25	MICHAEL BAKER INTERNATIONAL	5.0

MASS TRANSIT AND RAIL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	1,230.7
2	AECOM	724.8
3	SYSTRA	671.0
4	ATKINSREALIS	649.3
5	JACOBS SOLUTIONS INC.	510.5
6	ARCADIS NV	445.5
7	MOTT MACDONALD	400.6
8	ARUP GROUP LTD.	381.1
9	EGIS	232.3
10	HATCH LTD.	216.0
11	HDR	179.1
12	SIDARA	178.0
13	ORIENTAL CONSULTANTS GLOBAL (OCHD)	159.1
14	COWI A/S	140.5
15	PARSONS CORP.	131.7
16	CHINA RAILWAY DESIGN CORP.	128.0
17	STANTEC INC.	122.1
18	CHINA RAILWAY CONSTRUCTION CORP. LTD.	121.0
19	TECNICA Y PROYECTOS SA (TYPSA)	111.2
20	SENER GRUPO DE INGENIERIA SA	103.8
21	GRUPO ACS/HOCHTIEF	98.7
22	SURBANA JURONG PRIVATE LTD.	90.9
23	NIPPON KOEI GROUP	66.2
24	IDOM	65.0
25	AFRY	62.7

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM TRANSPORTATION AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.



## Top International Contractors

BRIDGES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA RAILWAY CONSTRUCTION CORP. LTD.	955.0
2	GRUPO ACS/HOCHTIEF	947.9
3	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	807.6
4	SKANSKA AB	595.8
5	ZHONGMEI ENGINEERING GROUP LTD.	300.0
6	OBAYASHI CORP.	256.0
7	FLUOR	246.9
8	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	233.9
9	CHINA RAILWAY GROUP LTD.	192.8
10	OHLA	190.5
11	SACYR	154.1
12	AFCONS INFRASTRUCTURE LTD.	147.9
13	WEBUILD SPA	140.2
14	CONSOLIDATED CONTRACTORS GROUP	114.4
15	BAUER AG	108.8
16	NATA INSAAT TURZ. TASIMACILIK TIC. VE SAN. AS	90.0
17	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	66.8
18	PCL CONSTRUCTION ENTERPRISES	58.6
19	LIMAK INSAAT SANAYI VE TICARET AS	51.0
20	KIEWIT CORP.	48.3
21	GS ENGINEERING & CONSTRUCTION	46.2
22	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	39.8
23	DL E&C CO. LTD.	38.5
24	SHIMIZU CORP.	30.1
25	YAPI MERKEZI INSAAT VE SANAYI AS	28.8

## Top International Design Firms

BRIDGES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	317.1
2	SIDARA	146.4
3	STANTEC INC.	91.2
4	SYSTRA	90.0
5	JACOBS SOLUTIONS INC.	88.7
6	COWI A/S	86.6
7	ARUP GROUP LTD.	86.3
8	AECOM	66.9
9	EXP	49.2
10	MOTT MACDONALD	43.8
11	CHODAI (PDT GROUP)	39.2
12	SURBANA JURONG PRIVATE LTD.	31.4
13	TETRA TECH	30.0
14	GRUPO ACS/HOCHTIEF	28.4
15	RAMBOLL GROUP A/S	27.9
16	PARSONS CORP.	21.2
17	MORRISON HERSHFIELD	16.5
18	AFRY	15.2
19	EGIS	14.7
20	ATKINSREALIS	14.7
21	ORIENTAL CONSULTANTS GLOBAL (OCHD)	13.3
22	ARCADIS NV	11.9
23	TECNICA Y PROYECTOS SA (TYPSA)	11.2
24	DORSCH HOLDING GMBH	11.2
25	KHATIB & ALAMI	9.7

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**BIG COMPLEX** Hyundai has five plants at its South Korea production site, but a new one would be the first making EVs.

## Massive Plant Site Growing

### Hyundai plans first EV plant at its original assembly facility

**H**undai Motor Co. opened its first assembly plant in 1968 in Ulsan, South Korea, and over the following decades has grown the site to include five independent manufacturing plants over 1.9 sq miles. Now the automaker is preparing to add electric vehicle production to the facility with construction of a \$1.5-billion plant. It would be Hyundai's first new facility built in its home country in 29 years.

Construction recently began and is scheduled to complete in 2025 for production to start in early 2026, according to Hyundai. The automaker plans for the 5.9-million-sq-ft plant to produce 200,000 EVs annually.

Last year, global EV sales increased 35% to 14 million, according to the International Energy Agency. It projects another 18% rise this year. ■

*By James Leggate*

**.8%**

**The decline in European Union countries' manufacturing output in Q2 2023**

- Organization for Economic Cooperation and Development

**\$16.3 TRILLION**

**The value of world manufacturing net output in 2022.**

- World Bank

#### **POLAND** Semiconductor Chip Plant

Intel is set to spend as much as \$4.6 billion building a semiconductor chip assembly and test facility near Wroclaw. Design is underway, and construction still requires European Commission approval. The chipmaker says the plant would be part of an end-to-end semiconductor value chain in Europe. Production began this year at a new chip plant at Intel's production site in Leixlip, Ireland, and the company has also announced plans to build a wafer fabrication plant in Magdeburg, Germany. The European Union has set a goal of claiming 20% of global semiconductor manufacturing capacity by 2030.

#### **GERMANY** Medical Device Plant

Indianapolis-based pharmaceutical manufacturer Eli Lilly and Co. recently announced plans to build a \$2.5-billion high-tech manufacturing plant in Alzey, Rhineland-Palatinate. The facility, which would produce injectable products and devices, would be Lilly's sixth manufacturing site in Europe. Construction is expected to involve about 1,900 workers and is scheduled to start next year, although it still requires government permitting approvals.

#### **INDIA** Toyota Production Expansion

Toyota Kirloskar Motor, a joint venture of the automaker and Indian conglomerate Kirloskar Group, recently signed an agreement with the government of the Karnataka state to expand its local manufacturing footprint. The company plans to build a \$400-million plant to add 100,000 units to its annual production capacity.

#### **TAIWAN** Electronic Component Plant

Technology firm Wiyynn Corp.'s board of directors approved a plan to build a \$194-million printed circuit board assembly plant in Taiwan. Wiyynn plans to manufacture the assemblies for cloud computing and AI servers. In addition to production, the facility will accelerate pilot runs and introduction of new products, the company says. Wiyynn plans to build the plant in alignment with green building standards.

## Top International Contractors

MANUFACTURING		
RANK	FIRM	REVENUE (\$ MIL.)*
1	EXYTE GMBH	5,955.5
2	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	2,335.9
3	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	2,067.7
4	HOFFMAN CONSTRUCTION	1,587.0
5	SAMSUNG C&T CORP.	1,079.0
6	TAKENAKA CORP.	768.0
7	SAMSUNG ENGINEERING CO. LTD.	736.9
8	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	693.4
9	CTCI CORP.	670.0
10	SKANSKA AB	601.7
11	HYUNDAI ENGINEERING CO. LTD.	588.5
12	KAJIMA CORP.	571.8
13	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	546.8
14	GRUPO ACS/HOCHTIEF	496.7
15	EIFFAGE	458.0
16	PER AARSLEFF HOLDING A/S	366.3
17	WALBRIDGE	325.3
18	KINDEN CORP.	261.0
19	ALBERICI-FLINTCO	251.6
20	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	229.3
21	LARSEN & TOUBRO LTD.	228.1
22	BOUYGUES	202.0
23	SHIMIZU CORP.	145.8
24	CHINA RAILWAY CONSTRUCTION CORP. LTD.	133.0
25	GS ENGINEERING & CONSTRUCTION	123.8
26	SYNERGY CONSTRUCT SRL	121.0
27	CHINA METALLURGICAL GROUP CORP.	83.5
28	SENER GRUPO DE INGENIERÍA SA	79.3
29	CHINA NATIONAL MACHINERY INDUSTRY CORP.	72.9
30	JIANGLIAN HEAVY INDUSTRY GROUP CO. LTD.	72.1
31	OHLA	71.4
32	ZHONGYIFENG CONSTRUCTION GROUP CO. LTD.	67.9
33	OBAYASHI CORP.	65.0
34	COMMERCIAL CONTRACTING CORP.	63.0
35	SK ECOPLANT	53.8
36	JIANGSU NANTONG NO.2 CONSTRUCTION	48.6
37	SHANDONG HI-SPEED DEJIAN GROUP CO. LTD.	36.9
38	FLUOR	36.7
39	RENAISSANCE CONSTRUCTION	36.4
40	HASKELL	34.0
41	ORASCOM CONSTRUCTION PLC	29.0
42	NORINCO INTERNATIONAL COOPERATION LTD.	29.0
43	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	27.8
44	BAUER AG	21.1
45	POSCO ENGINEERING & CONSTRUCTION	16.1
46	RONCELLI INC.	14.0
47	QINGJIAN GROUP CO. LTD.	13.0
48	PENTA-OCEAN CONSTRUCTION CO. LTD.	8.8
49	RAMBOLL GROUP A/S	8.4
50	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	8.3

## Top International Design Firms

MANUFACTURING		
RANK	FIRM	REVENUE (\$ MIL.)*
1	LARSEN & TOUBRO LTD.	453.4
2	WOOD	222.6
3	EXYTE GMBH	164.7
4	JACOBS SOLUTIONS INC.	94.6
5	ATKINSREALIS	65.0
6	WSP GLOBAL INC.	64.7
7	ARCADIS NV	61.8
8	SAMOO ARCHITECTS & ENGINEERS	60.9
9	SAMSUNG ENGINEERING CO. LTD.	37.0
10	STANTEC INC.	32.6
11	COWI A/S	26.2
12	PM GROUP	25.8
13	DREES & SOMMER	25.0
14	FLUOR	24.1
15	CTCI CORP.	22.6
16	AFRY	21.0
17	BECA GROUP LTD.	19.9
18	SSOE GROUP	18.8
19	KAJIMA CORP.	18.1
20	EXP	17.6
21	GRESHAM SMITH	17.4
22	LEIDOS	17.3
23	AURECON	16.8
24	SABBOUR CONSULTING	12.0
25	IDOM	11.2
26	SETEC	9.0
27	GHAFARI ASSOCIATES LLC	7.4
28	ROYAL HASKONINGDHV	7.2
29	MEINHARDT GROUP INTERNATIONAL	5.9
30	SIDARA	5.7
31	WARE MALCOMB	5.3
32	TETRA TECH	5.0
33	SYNERGY CONSTRUCT SRL	5.0
34	BILFINGER TEBODIN	4.7
35	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	4.3
36	CHINA NATIONAL MACHINERY INDUSTRY CORP.	3.0
37	AECOM	2.8
38	RAMBOLL GROUP A/S	2.3
39	KIEWIT CORP.	1.9
40	SENER GRUPO DE INGENIERÍA SA	1.8
41	AMG AL AMAR CONSULTING GROUP SA	1.7
42	SALAS O'BRIEN	1.5
43	ARTELIA	1.3
44	SWECO AB	1.0
45	KLEINFELDER	0.8
46	RABA KISTNER INC.	0.8
47	HSS ENGINEERS BERHAD	0.7
48	DEERNS	0.7
49	YOOSHIN ENGINEERING CORP.	0.5
50	HARGROVE ENGINEERS & CONSTRUCTORS	0.4

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE AS REPORTED FOR THOSE MARKETS IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

INDUSTRIAL PROCESS		
RANK	FIRM	REVENUE (\$ MIL.)*
1	BECHTEL	2,459.0
2	DANIELI & C. O.M. SPA	2,000.0
3	CHINA METALLURGICAL GROUP CORP.	1,246.3
4	VINCI	879.0
5	SINOSTEEL EQUIPMENT & ENGINEERING CO. LTD.	868.8
6	STRABAG SE	827.6
7	CHIYODA CORP.	710.4
8	GRUPO ACS/HOCHTIEF	576.0
9	EXYTE GMBH	531.5
10	ALBERICI-FLINTCO	519.5
11	CITIC CONSTRUCTION CO. LTD.	481.2
12	FLUOR	378.5
13	SKANSKA AB	363.5
14	KAJIMA CORP.	332.0
15	BOUYGUES	332.0
16	LARSEN & TOUBRO LTD.	276.8
17	HYUNDAI ENGINEERING CO. LTD.	275.4
18	ACCIONA	271.0
19	RENAISSANCE CONSTRUCTION	270.2
20	EFFAGE	265.0
21	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	226.0
22	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	220.3
23	ORASCOM CONSTRUCTION PLC	202.0
24	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	199.4
25	ESTA INSAAT SANAYI LOJISTIK VE DIS TICARET AS	178.2
26	CHINA TRIUMPH INTERNATIONAL ENGINEERING CO. LTD.	145.3
27	GILBANE BUILDING CO.	145.2
28	YANJIAN GROUP CO. LTD.	144.0
29	CHINA NATIONAL MACHINERY INDUSTRY CORP.	129.6
30	CHINA RAILWAY GROUP LTD.	124.1
31	CHINA ALUMINUM INTERNATIONAL ENG'G CORP. LTD.	89.7
32	WOOD	84.2
33	HASKELL	81.6
34	POSCO ENGINEERING & CONSTRUCTION	79.5
35	OBAYASHI CORP.	78.0
36	CHINA ENERGY ENGINEERING CORP. LTD.	77.8
37	DPR CONSTRUCTION	77.5
38	CHINA NERIN ENGINEERING CO. LTD.	69.7
39	SHIMIZU CORP.	68.6
40	ANT YAPI INDUSTRY & TRADE INC.	63.0
41	SAMSUNG ENGINEERING CO. LTD.	54.6
42	ATKINSREALIS	50.3
43	BAUER AG	50.0
44	HEBEI CONSTRUCTION GROUP CO. LTD.	46.4
45	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	46.0
46	CTCI CORP.	41.8
47	CHINA RAILWAY CONSTRUCTION CORP. LTD.	40.0
48	ILK CONSTRUCTION	36.1
49	SICHUAN ROAD AND BRIDGE (GROUP) CO. LTD.	35.6
50	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	35.4

## Top International Design Firms

INDUSTRIAL PROCESS		
RANK	FIRM	REVENUE (\$ MIL.)*
1	JACOBS SOLUTIONS INC.	659.3
2	WORLEY LTD.	540.6
3	HATCH LTD.	486.0
4	AFRY	373.0
5	WOOD	202.1
6	INTERTEK-PSI	169.6
7	BECHTEL	151.0
8	CHINA TRIUMPH INTERNATIONAL ENGINEERING CO. LTD.	134.1
9	PM GROUP	115.8
10	WSP GLOBAL INC.	112.9
11	SWECO AB	102.0
12	SIDARA	101.5
13	LARSEN & TOUBRO LTD.	96.0
14	FLUOR	86.3
15	ARCADIS NV	81.4
16	IPS-INTEGRATED PROJECT SERVICES LLC	71.1
17	RAMBOLL GROUP A/S	44.7
18	IDOM	44.0
19	ATKINSREALIS	43.1
20	TETRA TECH	43.0
21	BILFINGER TEBODIN	40.5
22	STANTEC INC.	40.2
23	ARTELIA	30.1
24	DBA GROUP	27.7
25	BECA GROUP LTD.	23.3
26	CHINA NERIN ENGINEERING CO. LTD.	23.3
27	EXYTE GMBH	22.5
28	CHINA METALLURGICAL GROUP CORP.	20.6
29	CRB	20.0
30	GHD	19.8
31	AYESA	17.0
32	EXP	16.6
33	CTCI CORP.	16.4
34	JENSEN HUGHES	15.7
35	EHA CONSULTING ENGINEERS	14.4
36	DENNIS GROUP	13.9
37	MOTT MACDONALD	13.5
38	WARE MALCOMB	11.5
39	CHINA ALUMINUM INTERNATIONAL ENG'G CORP. LTD.	11.3
40	KAJIMA CORP.	10.6
41	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	10.3
42	INGEROP	9.0
43	VEPICA GRUPO INTERNACIONAL SLU	8.0
44	SALAS O'BRIEN	8.0
45	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	5.7
46	CHINA NATIONAL MACHINERY INDUSTRY CORP.	5.2
47	AECOM	4.3
48	HASKELL	4.0
49	DISTANCE STUDIO CONSULTANTS	3.8
50	NIPPON KOEI GROUP	3.5

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE AS REPORTED FOR THOSE MARKETS IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

**Top International Contractors**

AUTO ASSEMBLY PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	HYUNDAI ENGINEERING CO. LTD.	588.5
2	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	440.0
3	WALBRIDGE	325.3
4	ALBERICI-FLINTCO	251.6
5	GRUPO ACS/HOCHTIEF	244.0
6	KAJIMA CORP.	111.6
7	LARSEN & TOUBRO LTD.	105.2
8	SHIMIZU CORP.	84.5
9	OHLA	71.4
10	CHINA NATIONAL MACHINERY INDUSTRY CORP.	70.5

STEEL AND NON-FERROUS METALS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	BECHTEL	2,458.3
2	CHINA METALLURGICAL GROUP CORP.	1,180.6
3	SINOSTEEL EQUIPMENT & ENGINEERING CO. LTD.	868.8
4	LARSEN & TOUBRO LTD.	250.7
5	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	199.4
6	HYUNDAI ENGINEERING CO. LTD.	154.8
7	YANJIAN GROUP CO. LTD.	138.1
8	CHINA RAILWAY GROUP LTD.	124.1
9	CHINA ALUMINUM INTERNATIONAL ENG'G CORP. LTD.	89.7
10	CHINA NERIN ENGINEERING CO. LTD	69.7
11	POSCO ENGINEERING & CONSTRUCTION	58.3
12	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	45.1
13	CTCI CORP.	41.8
14	BAUER AG	35.0
15	KOLIN INSAAT TURIZM SANAYI VE TICARET AS	32.1
16	GRUPO ACS/HOCHTIEF	26.0
17	SKANSKA AB	25.4
18	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	24.7
19	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	22.6
20	MATRIX SERVICE CO.	21.5

**Top International Design Firms**

AUTO ASSEMBLY PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LARSEN & TOUBRO LTD.	147.6
2	WSP GLOBAL INC.	37.3
3	ARCADIS NV	31.4
4	JACOBS SOLUTIONS INC.	20.0
5	GRESHAM SMITH	17.4
6	KAJIMA CORP.	17.4
7	LEIDOS	17.3
8	AFRY	12.7
9	ATKINSREALIS	10.8
10	SSEO GROUP	9.9

STEEL AND NON-FERROUS METALS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	HATCH LTD.	486.0
2	BECHTEL	123.0
3	WORLEY LTD.	107.6
4	AFRY	30.3
5	FLUOR	29.0
6	IDOM	26.0
7	CHINA NERIN ENGINEERING CO. LTD	23.3
8	CHINA METALLURGICAL GROUP CORP.	20.6
9	TETRA TECH	20.0
10	CTCI CORP.	16.4
11	CHINA ALUMINUM INTERNATIONAL ENG'G CORP. LTD.	11.3
12	WSP GLOBAL INC.	8.4
13	STANTEC INC.	6.0
14	BILFINGER TEBODIN	3.9
15	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	3.7
16	AECOM	3.4
17	TPF SA	2.7
18	RAMBOLL GROUP A/S	1.8
19	LARSEN & TOUBRO LTD.	1.6
20	ROYAL HASKONINGDHV	1.1

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\*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.



## Top International Contractors

TELECOMMUNICATIONS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	VINCI	4,396.0
2	GRUPO ACS/HOCHTIEF	3,713.0
3	BOUYGUES	591.0
4	FORTIS CONSTRUCTION INC.	510.9
5	ORASCOM CONSTRUCTION PLC	474.0
6	SKANSKA AB	471.2
7	OBAYASHI CORP.	295.0
8	EXYTE GMBH	223.7
9	DPR CONSTRUCTION	208.1
10	KAJIMA CORP.	178.8
11	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	171.1
12	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	136.0
13	CHINA RAILWAY CONSTRUCTION CORP. LTD.	98.0
14	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	88.7
15	SHIMIZU CORP.	87.8
16	LENLEASE	71.0
17	COMSA CORPORACIÓN	68.0
18	WEBUILD SPA	67.1
19	STO BUILDING GROUP	51.0
20	MOTA-ENGIL	49.0
21	STRABAG SE	48.6
22	EIFFAGE	48.0
23	SHANDONG HI-SPEED DEJIAN GROUP CO. LTD.	45.1
24	WALBRIDGE	38.4
25	BAUER AG	28.4

MINING		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	2,768.0
2	FLUOR	1,060.7
3	CHINA RAILWAY GROUP LTD.	947.4
4	NORINCO INTERNATIONAL COOPERATION LTD.	447.2
5	CHINA NATIONAL MACHINERY INDUSTRY CORP.	237.5
6	CHINA RAILWAY CONSTRUCTION CORP. LTD.	211.0
7	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	141.1
8	CHINA METALLURGICAL GROUP CORP.	70.1
9	SACYR	62.5
10	WEBUILD SPA	40.3
11	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	40.2
12	GRANITE CONSTRUCTION INC.	35.8
13	SICHUAN ROAD AND BRIDGE (GROUP) CO. LTD.	35.6
14	POWER CONSTRUCTION CORP. OF CHINA	29.7
15	KIEWIT CORP.	21.4
15	CHINA NERIN ENGINEERING CO. LTD	21.4

\*Tie for 15th.

## Top International Design Firms

TELECOMMUNICATIONS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	132.0
2	ARUP GROUP LTD.	112.7
3	RAMBOLL GROUP A/S	68.1
4	BECHTEL	59.0
5	HDR	54.0
6	AECOM	50.3
7	FUGRO NV	46.2
8	ARCADIS NV	45.4
9	ROYAL HASKONINGDHV	41.8
10	BURNS & MCDONNELL	36.3
11	SIDARA	31.4
12	AFRY	28.0
13	IPS-INTEGRATED PROJECT SERVICES LLC	16.3
14	MEINHARDT GROUP INTERNATIONAL	15.8
15	JACOBS SOLUTIONS INC.	15.7
16	PM GROUP	15.6
17	DEERNS	15.4
18	TOWER ENGINEERING PROFESSIONALS	15.0
19	LARSEN & TOUBRO LTD.	14.3
20	ATKINSREALIS	14.1
21	STANTEC INC.	12.3
22	DORSCH HOLDING GMBH	11.2
23	GENSLER	10.4
24	IDOM	10.3
25	BLACK & VEATCH	9.4

MINING		
RANK	FIRM	REVENUE (\$ MIL.**)
1	FLUOR	420.9
2	WSP GLOBAL INC.	320.6
3	HATCH LTD.	209.0
4	STANTEC INC.	180.7
5	ATKINSREALIS	95.0
6	WALDEMAR S. NELSON AND CO. INC.	34.7
7	AFRY	24.9
8	WORLEY LTD.	24.7
9	TPF SA	24.3
10	TETRA TECH	22.0
11	BARR ENGINEERING CO.	16.9
12	RAMBOLL GROUP A/S	12.6
13	IDOM	11.3
14	CHINA NERIN ENGINEERING CO. LTD	10.3
15	CHINA NATIONAL MACHINERY INDUSTRY CORP.	9.5

## Top International Contractors

CHEMICALS (NON-PETROLEUM)		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CITIC CONSTRUCTION CO. LTD.	468.9
2	CHINA TRIUMPH INTERNATIONAL ENGINEERING CO. LTD.	145.3
3	HYUNDAI ENGINEERING CO. LTD.	120.6
4	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	70.4
5	SAMSUNG ENGINEERING CO. LTD.	54.6
6	ATKINSREALIS	50.3
7	CHINA NATIONAL MACHINERY INDUSTRY CORP.	47.1
8	GRUPO ACS/HOCHTIEF	43.0
9	POSCO ENGINEERING & CONSTRUCTION	21.2
10	OBAYASHI CORP.	19.0
11	SKANSKA AB	15.1
12	BAUER AG	15.0
13	FLUOR	13.1
14	ENKA INSAAT VE SANAYI AS	11.4
15	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	10.3
16	YUNNAN CONST. AND INVEST. HOLDING GRP. CO. LTD.	10.1
17	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	10.0
18	NANTONG CONSTRUCTION GROUP CO. LTD.	9.2
19	WORLEY LTD.	7.8
20	CHINA GANSU INT'L ECON. AND TECH. COOP. CO. LTD.	5.8

PHARMACEUTICALS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	EXYTE GMBH	527.4
2	GRUPO ACS/HOCHTIEF	439.0
3	FLUOR	347.8
4	SKANSKA AB	305.4
5	KAJIMA CORP.	99.6
6	DPR CONSTRUCTION	77.5
7	CRB	17.1
8	IPS-INTEGRATED PROJECT SERVICES LLC	13.8
9	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	6.2
10	OBAYASHI CORP.	1.0

FOOD & BEVERAGES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ALBERICI-FLINTCO	519.5
2	KAJIMA CORP.	180.8
3	GILBANE BUILDING CO.	145.2
4	SYNERGY CONSTRUCT SRL	90.0
5	HASKELL	81.6
6	GRUPO ACS/HOCHTIEF	25.0
7	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	24.6
8	DENNIS GROUP	17.0
9	OBAYASHI CORP.	15.0
10	CHINA NATIONAL MACHINERY INDUSTRY CORP.	13.2

PULP & PAPER		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ESTA INSAAT SANAYI LOJISTIK VE DIS TICARET AS	178.2
2	HARBIN ELECTRIC INTERNATIONAL CO. LTD.	167.2
3	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	77.2
4	GRUPO ACS/HOCHTIEF	21.0
5	SHIMIZU CORP.	10.0

## Top International Design Firms

CHEMICALS (NON-PETROLEUM)		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA TRIUMPH INTERNATIONAL ENGINEERING CO. LTD.	134.1
2	WORLEY LTD.	80.3
3	WSP GLOBAL INC.	50.9
4	AFRY	43.7
5	RAMBOLL GROUP A/S	39.4
6	LARSEN & TOUBRO LTD.	29.9
7	JACOBS SOLUTIONS INC.	16.9
8	BILFINGER TEBODIN	15.7
9	ARCADIS NV	13.5
10	BECHTEL	11.5
11	STANTEC INC.	11.0
12	MOTT MACDONALD	10.0
13	IDOM	8.4
14	EXP	7.8
15	ATKINSREALIS	5.1
16	ARTELIA	4.5
17	HARGROVE ENGINEERS & CONSTRUCTORS	4.4
18	FLUOR	4.2
19	SIDARA	3.2
20	SAMSUNG ENGINEERING CO. LTD.	3.0

PHARMACEUTICALS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	JACOBS SOLUTIONS INC.	642.4
2	PM GROUP	101.0
3	SIDARA	96.9
4	IPS-INTEGRATED PROJECT SERVICES LLC	71.1
5	ARCADIS NV	64.2
6	FLUOR	51.6
7	CRB	20.0
8	TETRA TECH	20.0
9	EXYTE GMBH	19.9
10	AFRY	19.8

FOOD & BEVERAGES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LARSEN & TOUBRO LTD.	57.5
2	AFRY	49.7
3	WSP GLOBAL INC.	15.0
4	DENNIS GROUP	13.9
5	ATKINSREALIS	13.7
6	PM GROUP	13.0
7	SALAS O'BRIEN	8.0
8	STANTEC INC.	7.5
9	KAJIMA CORP.	7.2
10	POWER ENGINEERS INC.	6.7

PULP & PAPER		
RANK	FIRM	REVENUE (\$ MIL.**)
1	AFRY	214.5
2	BILFINGER TEBODIN	6.9
3	ARCADIS NV	3.7
4	WSP GLOBAL INC.	3.5
5	STANTEC INC.	2.5

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## Top International Contractors

SEMICONDUCTOR		
RANK	FIRM	REVENUE (\$ MIL.**)
1	EXYTE GMBH	5,949.8
2	CTCI CORP.	600.8
3	SKANSKA AB	499.7
4	PER AARSLEFF HOLDING A/S	361.1
5	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	128.3

ELECTRONIC ASSEMBLY		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SAMSUNG ENGINEERING CO. LTD.	736.9
2	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	199.8
3	GS ENGINEERING & CONSTRUCTION	123.8
4	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	122.3
5	KAJIMA CORP.	96.2

AEROSPACE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	161.0
2	SENER GRUPO DE INGENIERÍA SA	79.3
3	SKANSKA AB	48.6
4	HASKELL	34.0
5	KAJIMA CORP.	5.4

TRANSMISSION LINES & CABLING		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	88.7
2	CHINA RAILWAY CONSTRUCTION CORP. LTD.	71.0
3	BECHTEL	19.8
4	CHINA NATIONAL MACHINERY INDUSTRY CORP.	15.9
5	GRUPO ACS/HOCHTIEF	14.0

TOWERS & ANTENNAE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	125.1
2	LENLEASE	71.0
3	BAUER AG	20.0
4	ECC	14.6
5	MASTEC INC.	7.0

DATA CENTERS & WEB HOTELS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	3,699.0
2	FORTIS CONSTRUCTION INC.	510.9
3	SKANSKA AB	471.2
4	OBAYASHI CORP.	295.0
5	EXYTE GMBH	223.7
6	DPR CONSTRUCTION	208.1
7	KAJIMA CORP.	178.8
8	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	136.0
9	SHIMIZU CORP.	85.0
10	WEBUILD SPA	67.1

## Top International Design Firms

SEMICONDUCTOR		
RANK	FIRM	REVENUE (\$ MIL.**)
1	EXYTE GMBH	164.5
2	JACOBS SOLUTIONS INC.	74.5
3	LARSEN & TOUBRO LTD.	68.0
4	SAMOO ARCHITECTS & ENGINEERS	41.6
5	CTCI CORP.	22.1

ELECTRONIC ASSEMBLY		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LARSEN & TOUBRO LTD.	131.4
2	ATKINSREALIS	42.6
3	SAMSUNG ENGINEERING CO. LTD.	37.0
4	STANTEC INC.	25.4
5	ARCADIS NV	16.7

AEROSPACE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LARSEN & TOUBRO LTD.	80.6
2	EXP	17.6
3	ATKINSREALIS	11.6
4	SETEC	5.3
5	STANTEC INC.	5.0

TRANSMISSION LINES & CABLING		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SIDARA	8.7
2	ARCADIS NV	8.2
3	WSP GLOBAL INC.	6.7
4	BLACK & VEATCH	3.7
5	STANTEC INC.	3.1

TOWERS & ANTENNAE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	RAMBOLL GROUP A/S	18.4
2	LARSEN & TOUBRO LTD.	14.3
3	IDOM	10.1
4	MORRISON HERSHFIELD	3.4
5	EMPRESARIOS AGRUPADOS INTERNACIONAL SA	1.5

DATA CENTERS & WEB HOTELS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	125.2
2	ARUP GROUP LTD.	112.6
3	BECHTEL	58.9
4	HDR	54.0
5	AECOM	50.3
6	RAMBOLL GROUP A/S	49.7
7	ROYAL HASKONINGDHV	41.4
8	BURNS & MCDONNELL	36.2
9	SIDARA	22.7
10	IPS-INTEGRATED PROJECT SERVICES LLC	16.3

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**FRANCE**

**Eiffage Wins \$4.4B Contract For New Nuclear Power Units**

France-based engineer-constructor Eiffage said Nov. 16 it expects to begin work in mid-2024 on two 1,650-MW nuclear power units in Normandy for utility EDF. Permits are expected in 2027. Eiffage said its \$4.4-billion contract is for civil work and construction of 69 structures. The project is part of an estimated \$57-billion nuclear power expansion in France announced this year. About 22 countries, including the U.S., Canada, Japan, France, UK and UAE, agreed Dec. 2 at the COP28 climate change conference in Dubai to triple nuclear generation by 2050 from a base year of 2020. Total global installed nuclear capacity of about 375 GW in 2020 is forecast to rise to 631 GW by 2050, said S&P Global.

**CHILE**

**Spanish Firm Starts Work on Giant Energy Storage Project**

Spanish renewable energy developer Grenergy is building a 1-GW solar energy project and estimated 4.1-GWh battery energy storage system in Chile's Atacama Desert, which it said will be the world's largest. The developer will invest \$1.4 billion in the Oasis de Atacama project.

**UK**

**Firms Link to Explore Korean Nuclear Tech Use in Britain**

U.K.'s Mott MacDonald and Korean engineer-contractor KEPCO have agreed to explore building large-scale nuclear projects in the U.K. using Korean technology. This follows South Korea's plan to invest \$26 billion in U.K. energy and infrastructure projects.



**DECARBONIZING** Scotland aims for floating wind power projects to reduce emissions at offshore oil and gas platforms.

# North Sea CO<sub>2</sub> Cut Envisioned

Scotland inks new deals with floating wind power developers

Scotland has signed seven new agreements to develop floating offshore wind projects that would supply renewable energy to help North Sea oil and gas operations replace current gas and diesel power and reduce carbon emissions. The Innovation and Targeted Oil and Gas Program (INTOG) includes large-scale projects set to directly supply 5 GW of wind power to platforms over a 1,534-sq-km area and innovative small projects of 100 MW or less to produce 449 MW over 137 sq km, said government unit Crown Estate Scotland, which is managing the project. Innovations targeted include supply chain development, cost reductions and novel approaches to commercial methods and market development, said the unit.

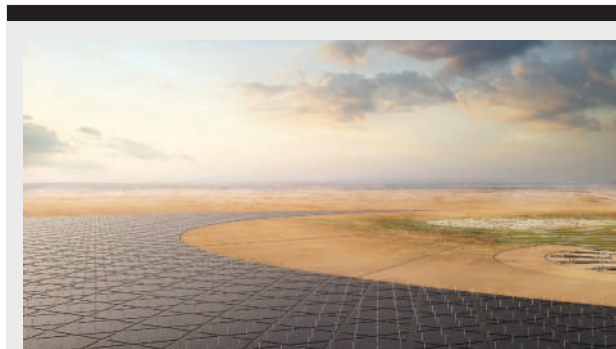
Final agreements are expected in 2024, but London-based developer Cerulean Winds announced Nov. 28 it has three floating wind agreements with Crown Estate Scotland. Its partners are Worley Ltd. as project manager and engineer, Siemens Energy for transmission, Siemens Gamesa as wind turbine provider and Houston-based NOV as marine contractor for floating units and mooring systems. The developer said its wind projects will be connected to form an offshore ring around the central North Sea, with the first wind power production targeted for 2028. ■

*By Mary B. Powers*

**230**

**Gigawatts of wind and solar energy to be installed in China in 2023, a global record, with an expected \$140B project investment**

Wood MacKenzie  
 Nov. 28 report



**MAURITANIA  
 THIRD GREEN HYDROGEN PLANT IS PROPOSED**

Danish green energy developer GreenGo Energy plans to build Megaton Moon to develop 60 GW of wind and solar energy to power 35 GW of electrolysis the firm says will annually produce 4 million tons of green hydrogen and 18 million tons of green ammonia. Its first phase would operate by 2028. GreenGo says Mauritania has abundant clean energy resources and proximity to the Atlantic Ocean. Danish engineer COWI A/S and New Power Partners will design project components. Megaton Moon Dept. of is Mauritania's third proposed green hydrogen project since 2021. The U.S. Energy Dept. announced Dec. 4 an agreement with the country to provide technology to advance decarbonization of its steel production.

PHOTO CREDITS: GREENGO ENERGY (BOTTOM) AND GETTY IMAGES, IGBR/ALERESE/US (TOP)

## Top International Contractors

POWER		
RANK	FIRM	REVENUE (\$ MIL.)*
1	VINCI	7,827.0
2	POWER CONSTRUCTION CORP. OF CHINA	6,600.1
3	CHINA ENERGY ENGINEERING CORP. LTD.	4,106.6
4	CHINA NATIONAL MACHINERY INDUSTRY CORP.	1,747.9
5	EIFPAGE	1,660.0
6	LARSEN & TOUBRO LTD.	1,563.2
7	BOUYGUES	1,498.0
8	SHANGHAI ELECTRIC GROUP CO. LTD.	1,236.3
9	SAMSUNG C&T CORP.	992.0
10	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	965.8
11	TBEA CO. LTD.	835.4
12	DONGFANG ELECTRIC CORP.	753.6
13	PCL CONSTRUCTION ENTERPRISES	742.2
14	CHINA ELECTRIC POWER EQUIPMENT AND TECH. CO. LTD.	727.1
15	GRUPO ACS/HOCHTIEF	693.8
16	HARBIN ELECTRIC INTERNATIONAL CO. LTD.	617.2
17	ACCIONA	592.0
18	POSCO ENGINEERING & CONSTRUCTION	568.4
19	CALIK ENERJI SANAYI VE TICARET AS	544.0
20	BLACK & VEATCH	536.9
21	ENKA INSAAT VE SANAYI AS	494.6
22	ATKINSREALIS	473.7
23	ROYAL BOSKALIS BV	470.0
24	THE ARAB CONTRACTORS (OSMAN AHMED OSMAN & CO.)	462.7
25	CHINA RAILWAY CONSTRUCTION CORP. LTD.	421.0
26	FERROVIAL	408.9
27	CHINA METALLURGICAL GROUP CORP.	360.9
28	NORINCO INTERNATIONAL COOPERATION LTD.	357.9
29	WOOD	339.9
30	LIMAK INSAAT SANAYI VE TICARET AS	310.0
31	RENAISSANCE CONSTRUCTION	308.8
32	LOTTE ENGINEERING & CONSTRUCTION CO. LTD.	291.0
33	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	268.1
34	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	266.9
35	XIAN ELECTRIC ENGINEERING CO. LTD.	251.8
36	MOTA-ENGIL	250.0
37	SHAPOORJI PALLONJI & CO. PRIVATE LTD.	242.0
38	HYUNDAI ENGINEERING CO. LTD.	224.2
39	KIEWIT CORP.	220.2
40	SKANSKA AB	217.4
41	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	211.8
42	SHANDONG ELECTRIC POWER ENG'G CONSULTING	204.2
43	CHINA NUCLEAR ENGINEERING CORP. LTD.	203.1
44	BURNS & MCDONNELL	179.8
45	YENIGUN INSAAT SANAYI VE TICARET AS	159.5
46	TATA PROJECTS LTD.	153.6
47	MAIRE TECNIMONT SPA	151.9
48	BAUER AG	134.8
49	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	124.4
50	CTCI CORP.	118.1

## Top International Design Firms

POWER		
RANK	FIRM	REVENUE (\$ MIL.)*
1	POWER CONSTRUCTION CORP. OF CHINA	1,220.7
2	CHINA ENERGY ENGINEERING CORP. LTD.	1,082.5
3	WSP GLOBAL INC.	653.9
4	JACOBS SOLUTIONS INC.	523.3
5	FUGRO NV	505.5
6	WORLEY LTD.	438.2
7	STANTEC INC.	324.3
8	AFRY	310.0
9	ATKINSREALIS	296.8
10	TRACTEBEL	292.0
11	ARCADIS NV	284.2
12	TETRA TECH	230.0
13	WOOD	190.8
14	MOTT MACDONALD	155.5
15	ASSYSTEM	144.0
16	HATCH LTD.	135.0
17	RAMBOLL GROUP A/S	132.2
18	FICHTNER GROUP	131.6
19	BLACK & VEATCH	129.5
20	SWECO AB	119.0
21	AECOM	116.5
22	SURBANA JURONG PRIVATE LTD.	103.5
23	SARGENT & LUNDY	91.0
24	CHINA NATIONAL MACHINERY INDUSTRY CORP.	71.0
25	COWI A/S	66.5
26	ILF CONSULTING ENGINEERS	59.7
27	DOHWA ENGINEERING CO. LTD.	58.9
28	IDOM	47.8
29	KEPCO ENGINEERING & CONSTRUCTION CO. INC.	46.9
30	EMPRESARIOS AGRUPADOS INTERNACIONAL SA	44.5
31	ARTELIA	38.8
32	POWER ENGINEERS INC.	37.5
33	BURNS & MCDONNELL	34.6
34	CISPDR CORPORATION	33.5
35	SIDARA	31.9
36	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	31.7
37	ENERGOPROJEKT HOLDING PLC	31.2
38	ARUP GROUP LTD.	31.1
39	KHATIB & ALAMI	30.9
40	EGIS	30.5
41	TECNICA Y PROYECTOS SA (TYPSA)	30.0
42	NIPPON KOEI GROUP	28.5
43	KIEWIT CORP.	28.4
44	LOMBARDI GROUP	23.1
45	EXP	21.1
46	CHINA TRIUMPH INTERNATIONAL ENGINEERING CO. LTD.	20.0
47	ROYAL HASKONINGDHV	19.8
48	GHD	17.1
49	SETEC	16.5
50	SHAKER GROUP	14.8

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM POWER AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.

\*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.



## Top International Contractors

FOSSIL FUEL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POWER CONSTRUCTION CORP. OF CHINA	1,976.3
2	CHINA ENERGY ENGINEERING CORP. LTD.	1,525.5
3	DONGFANG ELECTRIC CORP.	607.0
4	POSCO ENGINEERING & CONSTRUCTION	566.9
5	CHINA NATIONAL MACHINERY INDUSTRY CORP.	562.3
6	CALIK ENERJI SANAYI VE TICARET AS	507.0
7	BLACK & VEATCH	485.0
8	HARBIN ELECTRIC INTERNATIONAL CO. LTD.	422.8
9	SHANGHAI ELECTRIC GROUP CO. LTD.	413.4
10	ENKA INSAAT VE SANAYI AS	342.9
11	LIMAK INSAAT SANAYI VE TICARET AS	220.0
12	HYUNDAI ENGINEERING CO. LTD.	213.7
13	NORINCO INTERNATIONAL COOPERATION LTD.	204.6
14	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	199.3
15	CHINA METALLURGICAL GROUP CORP.	186.2
16	BURNS & MCDONNELL	155.1
17	CTCI CORP.	118.1
18	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	92.5
19	ATKINSREALIS	84.4
20	CITIC CONSTRUCTION CO. LTD.	74.6
21	LARSEN & TOUBRO LTD.	57.5
22	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	45.0
23	SKANSKA AB	38.5
24	NANTONG CONSTRUCTION GROUP CO. LTD.	22.7
25	SHANDONG HI-SPEED DEJIAN GROUP CO. LTD.	19.6

NUCLEAR PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA NUCLEAR ENGINEERING CORP. LTD.	128.6
2	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	82.9
3	UNITED ENGINEERS & CONSTRUCTORS INC.	67.5
4	SYNERGY CONSTRUCT SRL	20.0
5	BAUER AG	13.5
6	CHINA ENERGY ENGINEERING CORP. LTD.	12.9
7	ENKA INSAAT VE SANAYI AS	8.0
8	FLUOR	5.4
9	GRUPO ACS/HOCHTIEF	3.0
10	SKANSKA AB	2.4

## Top International Design Firms

FOSSIL FUEL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA ENERGY ENGINEERING CORP. LTD.	514.6
2	WSP GLOBAL INC.	129.2
3	BLACK & VEATCH	76.2
4	AFRY	48.3
5	WORLEY LTD.	39.3
6	FICHTNER GROUP	31.3
7	STANTEC INC.	27.2
8	SARGENT & LUNDY	25.0
9	CHINA NATIONAL MACHINERY INDUSTRY CORP.	23.5
10	TRACTEBEL	23.2
11	MOTT MACDONALD	22.5
12	BURNS & MCDONNELL	19.9
13	IDOM	18.7
14	POWER CONSTRUCTION CORP. OF CHINA	15.6
15	SENER GRUPO DE INGENIERÍA SA	12.5
16	EMPRESARIOS AGRUPADOS INTERNACIONAL SA	10.0
17	NIPPON KOEI GROUP	7.7
18	ARTELIA	7.6
19	POWER ENGINEERS INC.	6.7
20	KIEWIT CORP.	4.2
21	EXP	4.0
22	GEOSYNTEC CONSULTANTS	3.3
23	AECOM	2.4
24	KHATIB & ALAMI	1.9
25	JACOBS SOLUTIONS INC.	1.8

NUCLEAR PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	JACOBS SOLUTIONS INC.	367.9
2	ATKINSREALIS	207.7
3	ASSYSTEM	138.0
4	TRACTEBEL	67.6
5	SARGENT & LUNDY	65.0
6	WORLEY LTD.	47.4
7	KEPCO ENGINEERING & CONSTRUCTION CO. INC.	46.8
8	HATCH LTD.	41.0
9	WSP GLOBAL INC.	39.2
10	EGIS	30.5

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM POWER AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

HYDRO PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA ENERGY ENGINEERING CORP. LTD.	1,671.7
2	POWER CONSTRUCTION CORP. OF CHINA	1,413.1
3	THE ARAB CONTRACTORS (OSMAN AHMED OSMAN & CO.)	460.0
4	KIEWIT CORP.	203.3
5	GRUPO ACS/HOCHTIEF	139.8
6	CHINA NATIONAL MACHINERY INDUSTRY CORP.	131.6
7	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	88.7
8	SKANSKA AB	60.9
9	DONGFANG ELECTRIC CORP.	59.9
10	JIANGXI WATER AND HYDROPOWER CONSTR. CO. LTD.	52.8
11	SHIMIZU CORP.	41.7
12	BAUER AG	40.4
13	NORINCO INTERNATIONAL COOPERATION LTD.	27.5
14	BARNARD CONSTRUCTION CO. INC.	22.8
15	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	21.9
16	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	20.1
17	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	11.7
18	CHINA GEO-ENGINEERING CORP.	10.2
19	CGCOC GROUP CO. LTD.	9.8
20	HYUNDAI ENGINEERING CO. LTD.	8.9

COGENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	256.0
2	PCL CONSTRUCTION ENTERPRISES	252.9
3	CHINA METALLURGICAL GROUP CORP.	168.8
4	CHINA ENERGY ENGINEERING CORP. LTD.	150.1
5	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	55.9
6	BLACK & VEATCH	51.7
7	SENER GRUPO DE INGENIERÍA SA	25.1
8	CHINA NATIONAL MACHINERY INDUSTRY CORP.	20.8
9	WEBUILD SPA	20.4
10	ZHONGYIFENG CONSTRUCTION GROUP CO. LTD.	13.1

OPERATIONS & MAINTENANCE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POWER CONSTRUCTION CORP. OF CHINA	94.0
2	CHINA NATIONAL MACHINERY INDUSTRY CORP.	77.4
3	CHINA ENERGY ENGINEERING CORP. LTD.	70.0
4	DAY & ZIMMERMANN	52.3
5	CALIK ENERJI SANAYI VE TICARET AS	30.0
6	PCL CONSTRUCTION ENTERPRISES	19.9
7	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	19.1
8	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	18.8
9	HARBIN ELECTRIC INTERNATIONAL CO. LTD.	18.2
10	CHINA NUCLEAR ENGINEERING CORP. LTD.	16.6

## Top International Design Firms

HYDRO PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POWER CONSTRUCTION CORP. OF CHINA	124.7
2	TRACTEBEL	116.2
3	TETRA TECH	85.0
4	STANTEC INC.	80.3
5	SURBANA JURONG PRIVATE LTD.	74.5
6	HATCH LTD.	74.0
7	AFRY	65.7
8	WSP GLOBAL INC.	36.8
9	MOTT MACDONALD	31.6
10	KIEWIT CORP.	23.1
11	CISPRD CORPORATION	21.6
12	ARTELIA	15.9
13	NIPPON KOEI GROUP	15.7
14	DLZ CORP.	13.2
15	FICHTNER GROUP	9.6
16	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	8.0
17	CHINA ENERGY ENGINEERING CORP. LTD.	7.2
18	ATKINSREALIS	6.4
19	CHINA NATIONAL MACHINERY INDUSTRY CORP.	5.3
20	ILF CONSULTING ENGINEERS	4.2

COGENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WORLEY LTD.	110.2
2	AFRY	42.0
3	WSP GLOBAL INC.	35.1
4	FICHTNER GROUP	29.5
5	BLACK & VEATCH	23.3
6	JACOBS SOLUTIONS INC.	9.4
7	STANTEC INC.	9.1
8	ILF CONSULTING ENGINEERS	5.0
9	EMPRESARIOS AGRUPADOS INTERNACIONAL SA	3.5
10	COWI A/S	3.2

OPERATIONS & MAINTENANCE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	AECOM	17.6
2	KHATIB & ALAMI	12.7
3	AFRY	9.9
4	FICHTNER GROUP	8.6
5	SURBANA JURONG PRIVATE LTD.	7.5
6	WSP GLOBAL INC.	6.2
7	CHINA ENERGY ENGINEERING CORP. LTD.	3.4
8	CHINA NATIONAL MACHINERY INDUSTRY CORP.	3.1
9	BLACK & VEATCH	2.8
10	LEIDOS	1.0

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM POWER AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

TRANSMISSION AND DISTRIBUTION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LARSEN & TOUBRO LTD.	1,187.0
2	TBEA CO. LTD.	835.4
3	CHINA ELECTRIC POWER EQUIPMENT AND TECH. CO. LTD.	670.5
4	POWER CONSTRUCTION CORP. OF CHINA	516.8
5	GRUPO ACS/HOCHTIEF	400.0
6	ATKINSREALIS	389.3
7	XIAN ELECTRIC ENGINEERING CO. LTD.	251.8
8	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	238.4
9	CHINA NATIONAL MACHINERY INDUSTRY CORP.	224.8
10	CHINA ENERGY ENGINEERING CORP. LTD.	152.0
11	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	136.2
12	SKANSKA AB	104.4
13	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	78.4
14	BAUER AG	67.4
15	PETROFAC LTD.	44.7
16	WORLEY LTD.	44.4
17	CHINA RAILWAY CONSTRUCTION CORP. LTD.	25.0
18	BURNS & MCDONNELL	24.7
19	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	17.0
20	SHANGHAI ELECTRIC GROUP CO. LTD.	9.0
21	PCL CONSTRUCTION ENTERPRISES	8.8
22	KAJIMA CORP.	8.5
23	CHINA GANSU INT'L ECON. AND TECH. COOP. CO. LTD.	8.4
24	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	7.8
25	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	7.4

WIND GENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ENKA INSAAT VE SANAYI AS	143.8
2	NORINCO INTERNATIONAL COOPERATION LTD.	125.7
3	CHINA ENERGY ENGINEERING CORP. LTD.	106.3
4	POWER CONSTRUCTION CORP. OF CHINA	84.8
5	DONGFANG ELECTRIC CORP.	84.0
6	MASTEC INC.	59.7
7	SACYR	42.3
8	SHANXI CONSTRUCTION INVESTMENT GROUP CO. LTD.	37.4
9	CHINA NUCLEAR ENGINEERING CORP. LTD.	35.2
10	CHINA ELECTRIC POWER EQUIPMENT AND TECH. CO. LTD.	22.5

SOLAR GENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SHANGHAI ELECTRIC GROUP CO. LTD.	813.9
2	POWER CONSTRUCTION CORP. OF CHINA	711.1
3	CHINA NATIONAL MACHINERY INDUSTRY CORP.	603.0
4	PCL CONSTRUCTION ENTERPRISES	457.7
5	CHINA RAILWAY CONSTRUCTION CORP. LTD.	362.0
6	LARSEN & TOUBRO LTD.	317.5
7	CHINA ENERGY ENGINEERING CORP. LTD.	198.9
8	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	188.7
9	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	130.7
10	LIMAK INSAAT SANAYI VE TICARET AS	90.0

## Top International Design Firms

TRANSMISSION AND DISTRIBUTION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	335.8
2	ARCADIS NV	272.8
3	STANTEC INC.	157.2
4	WORLEY LTD.	107.5
5	CHINA ENERGY ENGINEERING CORP. LTD.	102.8
6	RAMBOLL GROUP A/S	83.2
7	JACOBS SOLUTIONS INC.	79.0
8	AFRY	55.4
9	AECOM	44.6
10	ATKINSREALIS	44.4
11	TETRA TECH	42.0
12	TRACTEBEL	40.5
13	ILF CONSULTING ENGINEERS	35.5
14	MOTT MACDONALD	35.1
15	POWER ENGINEERS INC.	30.7
16	SIDARA	27.9
17	FICHTNER GROUP	26.1
18	SURBANA JURONG PRIVATE LTD.	21.5
19	KHATIB & ALAMI	16.4
20	POWER CONSTRUCTION CORP. OF CHINA	13.9
21	BURNS & MCDONNELL	13.4
22	EXP	11.4
23	CISPRD CORPORATION	10.2
24	FLUOR	10.1
25	CHINA NATIONAL MACHINERY INDUSTRY CORP.	9.0

WIND GENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POWER CONSTRUCTION CORP. OF CHINA	623.3
2	CHINA ENERGY ENGINEERING CORP. LTD.	306.5
3	WORLEY LTD.	106.1
4	TETRA TECH	63.0
5	MOTT MACDONALD	52.7
6	COWI A/S	51.6
7	RAMBOLL GROUP A/S	44.5
8	WSP GLOBAL INC.	31.7
9	JACOBS SOLUTIONS INC.	30.7
10	TRACTEBEL	24.0

SOLAR GENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POWER CONSTRUCTION CORP. OF CHINA	305.9
2	CHINA ENERGY ENGINEERING CORP. LTD.	101.1
3	JACOBS SOLUTIONS INC.	33.7
4	STANTEC INC.	25.8
5	WORLEY LTD.	25.2
6	CHINA NATIONAL MACHINERY INDUSTRY CORP.	24.1
7	WSP GLOBAL INC.	21.6
8	HATCH LTD.	20.0
9	TETRA TECH	20.0
10	CHINA TRIUMPH INTERNATIONAL ENGINEERING CO. LTD.	20.0

\*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

**GERMANY**

**Steel Giant ThyssenKrupp Plans Big Decarbonization**

ThyssenKrupp Steel Europe AG has selected U.S.-based Jacobs to manage the decarbonization of its steel mill in Duisburg, Germany, which the manufacturer says is Europe's largest. The project, which involves substituting coke blast furnaces with hydrogen-powered electric smelters, is one of the largest industrial decarbonization projects worldwide, Jacobs said. When operational in 2026, the site will produce 2.5 million tons of direct-reduced iron annually and cut carbon emissions by up to 3.5 million tons per year. ThyssenKrupp Steel is set to produce 5 million metric tons of low-carbon steel by 2030 and be completely climate-neutral by 2045, Jacobs said.

**TRINIDAD AND TOBAGO**

**Shell Authorizes McDermott To Build Manatee Gas Field**

U.S.-based contractor McDermott International said Nov. 28 that energy giant Shell has given it a notice to proceed for engineering, procurement construction, installation and commissioning of the offshore Manatee gas field project in Trinidad and Tobago, including a wellhead platform and offshore and onshore gas pipelines. The contract value and estimated project development costs were not disclosed. Energy Minister Stuart Young said on Nov. 28 that he expected a final investment decision in a "very short timeframe." That action is set for next year, a Shell spokesperson told Reuters. When operating, Manatee is set to produce 700 million cu ft per day for domestic use and export. The field, shared with Venezuela, holds about 10 trillion cu ft of natural gas. McDermott also won a project front-end design contract earlier this year.

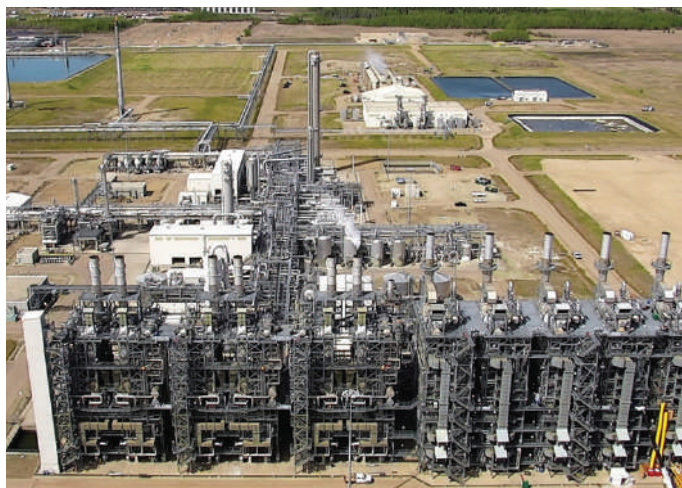
**\$102B**

**2024-28 investment by state-run Brazil oil firm Petrobras, with most of it for oil production but also including \$11B for low carbon initiatives.**

—Petrobras new strategic plan

# Dow Inks Big Petrochem Job

Board okays \$6.5B Alberta project, with Fluor in key roles



**CARBON CUTTING**

Chemical giant's Alberta production site will get a multibillion-dollar investment to boost output and develop what the firm claims will be the world's first net-zero ethylene and derivatives complex.

**P**etrochemical giant Dow will build a \$6.5-billion project, including a new ethylene cracker and expanded polyethylene production at its Fort Saskatchewan, Alberta, site, the firm said Nov. 28 in making the final investment decision. Dow said the project will create the world's first net-zero ethylene and derivatives complex, and will decarbonize 20% of its global capacity. Construction will begin in 2024, with first-phase startup in 2027. Fluor Corp. announced Dec. 4 that it won \$3 billion of EPCM and other construction work at the site, and it previously said it was managing front-end engineering and design. The project would qualify for about \$1.5 billion in federal, provincial and local government subsidies, said a Dow spokeswoman, with prevailing wage mandates. About 28 project labor agreements have been signed, she added. Dow said the investment will create up to 8,000 construction jobs at peak and 500 permanently in the plant. The project first phase will add about 1.29 million tons per year of ethylene and polyethylene capacity. The second phase, to start in 2029, will add 600,000 tpy. The project would cut site CO<sub>2</sub> emissions by about 1 million metric tons per year, Dow said. ■

By Debra K. Rubin

**QATAR**

**WORLEY AWARDED GAS FIRM CO<sub>2</sub> SEQUESTRATION PROJECT DESIGN**



Australia-based Worley will develop the front-end design for QatarEnergy LNG's CO<sub>2</sub> sequestration project at its Ras Laffan site (left), the services firm said. The project will enable the energy provider to capture 4.3 million metric tons per year of CO<sub>2</sub> from a total of 10 selected trains, which will be compressed and injected into new injection wells. Worley will develop the FEED study and EPC scope of work, but the financial terms of its contract and project investment were not disclosed. It will execute the project, set to finish in 2024, from Qatar and Australia. Worley also announced in late October a FEED contract award for the first 500-MW phase of the 3-GW Kintore green hydrogen project in Aberdeenshire, Scotland, for U.K.-based Statera Energy, which it said would be Europe's largest when complete. The project aims to harness surplus offshore wind power to produce the renewable hydrogen. The proposed FEED study is set to finish in 2024, with Worley saying that the full 3 GW of production is expected online "by the 2030s."

## Top International Contractors

PETROLEUM		
RANK	FIRM	REVENUE (\$ MIL.*)
1	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	5,181.2
2	JGC HOLDINGS CORP.	3,868.0
3	SAMSUNG ENGINEERING CO. LTD.	3,528.6
4	CHINA PETROLEUM ENGINEERING CO. LTD.	3,369.7
5	FLUOR	3,158.5
6	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	3,149.8
7	MAIRE TECNIMONT SPA	2,889.8
8	PETROFAC LTD.	2,295.4
9	HYUNDAI ENGINEERING CO. LTD.	2,053.8
10	WORLEY LTD.	1,820.6
11	CHIYODA CORP.	1,804.3
12	WOOD	1,680.3
13	KIEWIT CORP.	1,677.1
14	LARSEN & TOUBRO LTD.	1,353.0
15	SICIM SPA	1,122.7
16	OFFSHORE OIL ENGINEERING CO. LTD.	1,018.2
17	BECHTEL	977.0
18	NATIONAL MARINE DREDGING COMPANY (NMDC)	806.3
19	DAEWOO ENGINEERING AND CONSTRUCTION CO. LTD.	763.8
20	CTCI CORP.	757.7
21	MICHELS CORP.	698.9
22	BONATTI	681.0
23	CONSOLIDATED CONTRACTORS GROUP	670.1
24	TOYO ENGINEERING CORP.	644.4
25	CONTRACTING AND TRADING CO. (C.A.T.)	634.2
26	SINOPEC ENGINEERING (GROUP) CO. LTD.	623.1
27	SK ECOPLANT	613.7
28	DL E&C CO. LTD.	603.0
29	SINOPEC ZHONGYUAN PETROLEUM ENGINEERING LTD.	586.4
30	ENKA INSAAT VE SANAYI AS	523.7
31	RENAISSANCE CONSTRUCTION	500.8
32	SAMSUNG C&T CORP.	482.0
33	GRUPO ACS/HOCHTIEF	451.4
34	MOTA-ENGIL	393.0
35	VINCI	391.0
36	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	374.0
37	PETRO. PROJECTS AND TECH. CONSULT. CO. - PETROJET	323.7
38	GS ENGINEERING & CONSTRUCTION	255.9
39	CHINA NATIONAL MACHINERY INDUSTRY CORP.	235.7
40	CHINA ENERGY ENGINEERING CORP. LTD.	234.2
41	PCL CONSTRUCTION ENTERPRISES	213.2
42	APTIM	211.5
43	SHANDONG HI-SPEED GROUP CO. LTD.	204.5
44	POSCO ENGINEERING & CONSTRUCTION	199.2
45	VELESSTROY LLC	198.0
46	DONGFANG ELECTRIC CORP.	197.2
47	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	179.1
48	BARNARD CONSTRUCTION CO. INC.	172.3
49	BOUYGUES	147.0
50	JAN DE NUL GROUP (SOFIDRA SA)	141.0

## Top International Design Firms

PETROLEUM		
RANK	FIRM	REVENUE (\$ MIL.*)
1	WORLEY LTD.	2,835.6
2	FLUOR	2,223.4
3	WOOD	1,744.9
4	FUGRO NV	611.1
5	MAIRE TECNIMONT SPA	508.6
6	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	391.6
7	PETROFAC LTD.	260.7
8	INTERTEK-PSI	199.8
9	SAMSUNG ENGINEERING CO. LTD.	198.2
10	CHINA PETROLEUM ENGINEERING CO. LTD.	183.1
11	BECHTEL	167.0
12	WSP GLOBAL INC.	139.3
13	STANTEC INC.	106.4
14	MOTT MACDONALD	103.0
15	ILF CONSULTING ENGINEERS	83.2
16	LARSEN & TOUBRO LTD.	82.5
17	JGC HOLDINGS CORP.	77.0
18	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	70.5
19	CTCI CORP.	68.8
20	BILFINGER TEBODIN	56.7
21	DL E&C CO. LTD.	56.1
22	HATCH LTD.	53.0
23	SINOPEC ENGINEERING (GROUP) CO. LTD.	52.5
24	ARTELIA	47.3
25	TETRA TECH	43.0
26	TRACTEBEL	34.3
27	IDOM	33.3
28	KIEWIT CORP.	31.5
29	AECOM	30.2
30	BLACK & VEATCH	28.6
31	SIDARA	15.9
32	AUDUBON	15.8
33	ATKINSREALIS	13.2
34	TATA PROJECTS LTD.	13.2
35	KHATIB & ALAMI	12.9
36	CHINA NATIONAL MACHINERY INDUSTRY CORP.	12.2
37	OFFSHORE OIL ENGINEERING CO. LTD.	11.4
38	KLEINFELDER	11.1
39	AYESA	11.0
40	GHD	10.0
41	ARUP GROUP LTD.	9.0
42	SENER GRUPO DE INGENIERÍA SA	8.7
43	SK ECOPLANT	7.9
44	PROGER SPA	7.8
45	CONSOLIDATED CONTRACTORS GROUP	6.8
46	RANHILL BERSEKUTU SDN BHD	6.1
47	TEKFEN MUHENDISLIK AS	5.8
48	EXP	4.4
49	POND AND CO.	3.1
50	THORNTON TOMASETTI	3.0

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM PETROLEUM AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRM IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.



## Top International Contractors

REFINERIES AND PETROCHEMICAL PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	3,149.1
2	FLUOR	3,145.0
3	SAMSUNG ENGINEERING CO. LTD.	2,993.5
4	MAIRE TECNIMONT SPA	2,306.5
5	HYUNDAI ENGINEERING CO. LTD.	2,053.8
6	PETROFAC LTD.	1,173.0
7	BECHTEL	977.5
8	CTCI CORP.	757.7
9	WORLEY LTD.	695.7
10	CONSOLIDATED CONTRACTORS GROUP	663.9
11	SINOPEC ENGINEERING (GROUP) CO. LTD.	623.1
12	DL E&C CO. LTD.	602.8
13	ENKA INSAAT VE SANAYI AS	445.4
14	GRUPO ACS/HOCHTIEF	420.0
15	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	347.0
16	SICIM SPA	288.9
17	GS ENGINEERING & CONSTRUCTION	252.7
18	CHINA ENERGY ENGINEERING CORP. LTD.	233.9
19	SHANDONG HI-SPEED GROUP CO. LTD.	204.5
20	VELESSTROY LLC	198.0
21	CHINA NATIONAL MACHINERY INDUSTRY CORP.	190.6
22	LARSEN & TOUBRO LTD.	179.2
23	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	175.6
24	PETRO. PROJECTS AND TECH. CONSULT. CO. - PETROJET	170.5
25	CHINA PETROLEUM ENGINEERING CO. LTD.	154.7

MAINTENANCE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA PETROLEUM ENGINEERING CO. LTD.	1,417.6
2	PETROFAC LTD.	570.3
3	APTIM	208.1
4	PCL CONSTRUCTION ENTERPRISES	167.6
5	EGYPTIAN MAINTENANCE CO. (EMC)	83.2

OFFSHORE AND UNDERWATER FACILITIES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	OFFSHORE OIL ENGINEERING CO. LTD.	1,018.2
2	WORLEY LTD.	727.0
3	NATIONAL MARINE DREDGING COMPANY (NMDC)	607.6
4	LARSEN & TOUBRO LTD.	448.9
5	CHINA PETROLEUM ENGINEERING CO. LTD.	74.9
6	BLACK & VEATCH	38.2
7	PETROFAC LTD.	34.5
8	GRUPO ACS/HOCHTIEF	23.4
9	BAUER AG	21.8
10	HANWHA ENGINEERING & CONSTRUCTION	15.6

## Top International Design Firms

REFINERIES AND PETROCHEMICAL PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	FLUOR	2,033.5
2	WORLEY LTD.	1,676.7
3	MAIRE TECNIMONT SPA	416.9
4	SAMSUNG ENGINEERING CO. LTD.	167.0
5	BECHTEL	166.4
6	PETROFAC LTD.	133.2
7	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	69.2
8	CTCI CORP.	68.8
9	LARSEN & TOUBRO LTD.	54.0
10	HATCH LTD.	53.0
11	SINOPEC ENGINEERING (GROUP) CO. LTD.	52.5
12	STANTEC INC.	52.3
13	BILFINGER TEBODIN	45.6
14	IDOM	33.3
15	WSP GLOBAL INC.	23.2
16	ILF CONSULTING ENGINEERS	15.9
17	KHATIB & ALAMI	12.9
18	CHINA NATIONAL MACHINERY INDUSTRY CORP.	10.3
19	KIEWIT CORP.	9.5
20	BLACK & VEATCH	7.6
21	SIDARA	6.7
22	CONSOLIDATED CONTRACTORS GROUP	6.5
23	AECOM	6.3
24	MOTT MACDONALD	4.9
25	CHINA PETROLEUM ENGINEERING CO. LTD.	4.3

MAINTENANCE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA PETROLEUM ENGINEERING CO. LTD.	148.8
2	PETROFAC LTD.	64.8
3	AECOM	23.6
4	STANTEC INC.	5.7
5	SIDARA	1.3

OFFSHORE AND UNDERWATER FACILITIES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WORLEY LTD.	473.8
2	FLUOR	164.2
3	LARSEN & TOUBRO LTD.	27.2
4	BLACK & VEATCH	21.0
5	TETRA TECH	20.0
6	WSP GLOBAL INC.	16.2
7	MOTT MACDONALD	13.4
8	OFFSHORE OIL ENGINEERING CO. LTD.	11.7
9	RANHILL BERSEKUTU SDN BHD	6.1
10	CHINA PETROLEUM ENGINEERING CO. LTD.	6.1

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM PETROLEUM AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRM IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

PIPELINES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA PETROLEUM ENGINEERING CO. LTD.	1,722.5
2	KIEWIT CORP.	1,616.1
3	SICIM SPA	808.8
4	MICHELS CORP.	697.5
5	CONTRACTING AND TRADING CO. (C.A.T.)	634.2
6	WORLEY LTD.	285.7
7	BARNARD CONSTRUCTION CO. INC.	172.3
8	NATIONAL MARINE DREDGING COMPANY (NMDC)	164.6
9	PETRO. PROJECTS AND TECH. CONSULT. CO. - PETROJET	153.2
10	MASTEC INC.	84.1
11	LARSEN & TOUBRO LTD.	83.3
12	CHINA NATIONAL MACHINERY INDUSTRY CORP.	45.1
13	WEEKS MARINE INC.	34.5
14	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	27.0
15	CHINA RAILWAY CONSTRUCTION CORP. LTD.	21.0
16	ATKINSREALIS	9.8
17	NORINCO INTERNATIONAL COOPERATION LTD.	9.2
18	GRUPO ACS/HOCHTIEF	8.0
19	CONSOLIDATED CONTRACTORS GROUP	6.1
20	FLUOR	6.1
21	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	5.9
22	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	3.4
23	SENER GRUPO DE INGENIERÍA SA	2.3
24	EGYPTIAN MAINTENANCE CO. (EMC)	1.3
25	ECC	0.5

## Top International Design Firms

PIPELINES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WORLEY LTD.	231.9
2	INTERTEK-PSI	149.3
3	MOTT MACDONALD	84.7
4	WSP GLOBAL INC.	70.5
5	STANTEC INC.	46.8
6	ILF CONSULTING ENGINEERS	44.3
7	CHINA PETROLEUM ENGINEERING CO. LTD.	24.0
8	KIEWIT CORP.	22.0
9	TETRA TECH	19.0
10	ATKINSREALIS	13.0
11	FLUOR	11.1
12	ARUP GROUP LTD.	6.6
13	SIDARA	6.2
14	BILFINGER TEBODIN	5.1
15	EXP	4.4
16	CHINA NATIONAL MACHINERY INDUSTRY CORP.	1.8
17	HDR	1.6
18	BURNS & MCDONNELL	1.5
19	ASSOCIATED CONSULTING ENGINEERS	1.5
20	SENER GRUPO DE INGENIERÍA SA	1.5
21	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	1.3
22	DORSCH HOLDING GMBH	1.0
23	BARR ENGINEERING CO.	0.8
24	GEOSYNTEC CONSULTANTS	0.7
25	WALDEMAR S. NELSON AND CO. INC.	0.4

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM PETROLEUM AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRM IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.



**WATER CYCLE** New plant will generate four times more energy than currently consumed, says the engineering team.

## Côte d'Azur Treatment

Nice, France, wastewater plant works on circular economy idea

A consortium led by France-based Suez Group, with Razel-Bec and VINCI subsidiary Triverio Construction has been awarded a civil engineering contract for the Haliotis 2 wastewater treatment facility in Nice, by Métropole Nice Côte d'Azur and Eau d'Azur. The \$770-million project, which will replace the existing plant and treat wastewater from 680,000 residents across 26 municipalities, will be the largest of its kind in France, according to the team.

Among plant features is its ability to remove 90% of microplastics and the generation of renewable energy, including solar and biomethane from sludge, during treatment. Work will start in the summer of next year and will include demolition or repurposing of existing structures and building new wastewater treatment facilities, as well as air treatment and recovery systems for heat and biogas. The project will also include 4.5 landscaped hectares with 600 trees. The plant is expected to come on line in phases from 2025 to 2030, with most of the current equipment and future demolition materials to be reused as backfill.

"Haliotis 2 will be an environmental benchmark. It will combine the reduction of microplastics, the reuse of treated wastewater and the production of green and local energy," said Sabrina Soussan, Suez Chairman and CEO, in a statement. She termed the plant "a technological performance that meets the challenges of the coming years in terms of water quality, the circular economy and decarbonization." ■

*By Corinne Grinapol*

### THE NETHERLANDS A 'LIVING LAB' TO SAVE WATER

Dutch water utility Vitens, which relies on groundwater for its water supply, has chosen a consortium that includes ADS Group Water B.V. as contractor and Ramboll as subject matter expert on the "living lab." The project will allow the utility to test water treatment technologies and increase its supply. The team will develop the project over five years under a design, build, operate and maintain contract. The demonstration plant will be designed and built in two phases, with a capacity of 5 to 10-million cu m per year. Phase three will involve operations. A panel of international experts will advise and learn from the project.



### SPAIN Carbon Capture and Conversion at Wastewater Treatment Plant

ACCIONA is part of the seven-country, European Union-funded HICCUPS project. At a demonstration plant that will be built and housed at an ACCIONA wastewater treatment plant in Spain, CO<sub>2</sub> emissions produced during the treatment process will be captured from biogas and converted to monomers. These small molecules can bond to other molecules, in this case creating the polymer PLGA. The project will explore the potential of the polymer to replace polyethylene in packaging materials that will be made with PLGA film-coated paper and injection molding. The project, which launched in September, will run through August 2027 and is funded by a \$5.4-million EU grant. Avantium is the project coordinator.

### UK Piloting a Saltmarsh Carbon Code

Jacobs is part of a team being led by the UK Centre for Ecology and Hydrology based in England to develop and test a UK Saltmarsh Carbon Code, which will be a voluntary standard. The code will create a framework for carbon captured by saltmarshes and other coastal systems, dubbed blue carbon, to be sold and traded in the form of carbon offsets, with proceeds going toward coastal restoration projects. The code will spur up to \$1.39 billion worth of private investment, according to Jacobs.

### BY THE NUMBERS

**38 BILLION TONNES**

Projected CO<sub>2</sub> emissions in 2023, a 1.1% increase from 2022

**.01 MILLION TONNES**

Amount of CO<sub>2</sub> being captured through technology

— Peer-reviewed Global Carbon Budget Report 2023

## Top International Contractors

WATER SUPPLY		
RANK	FIRM	REVENUE (\$ MIL.)*
1	WEBUILD SPA	1,697.7
2	ACCIONA	1,015.0
3	POWER CONSTRUCTION CORP. OF CHINA	757.0
4	STRABAG SE	623.6
5	VINCI	508.0
6	FCC SA	507.7
7	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	481.4
8	GRUPO ACS/HOCHTIEF	459.7
9	CHINA ENERGY ENGINEERING CORP. LTD.	404.5
10	FERROVIAL	327.3
11	GS ENGINEERING & CONSTRUCTION	313.7
12	CHINA NATIONAL MACHINERY INDUSTRY CORP.	259.6
13	ORASCOM CONSTRUCTION PLC	245.0
14	EIFFAGE	240.0
15	CHINA GEO-ENGINEERING CORP.	226.6
16	CGCOC GROUP CO. LTD.	222.9
17	SKANSKA AB	198.4
18	ZHONGMEI ENGINEERING GROUP LTD.	189.5
19	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	182.7
20	SAMSUNG C&T CORP.	166.0
21	LARSEN & TOUBRO LTD.	154.2
22	OHLA	153.9
23	SACYR	152.3
24	MOTA-ENGIL	150.0
25	SICIM SPA	148.2
26	MAPA INSAAT VE TICARET AS	143.7
27	CHINA RAILWAY GROUP LTD.	141.9
28	CHINA RAILWAY CONSTRUCTION CORP. LTD.	130.0
29	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	120.5
30	ZHENGTAI GROUP CO. LTD.	119.9
31	HUNAN CONSTRUCTION ENGINEERING GROUP CO. LTD.	97.3
32	BECHTEL	91.0
33	LIMAK INSAAT SANAYI VE TICARET AS	90.0
34	YUKSEL INSAAT CO. INC.	88.4
35	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	74.0
36	WEIHAI INTERNATIONAL ECONOMIC & TECHNICAL COOPERATIVE CO. LTD.	71.7
37	CHINA PETROLEUM ENGINEERING CO. LTD.	67.1
38	SHANGHAI URBAN CONSTRUCTION (GROUP) CORP.	66.3
39	DAEWOO ENGINEERING AND CONSTRUCTION CO. LTD.	65.4
40	BAUER AG	64.2
41	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	64.2
42	SHANDONG HI-SPEED GROUP CO. LTD.	63.6
43	AFCONS INFRASTRUCTURE LTD.	52.2
44	CITIC CONSTRUCTION CO. LTD.	52.0
45	OBAYASHI CORP.	50.0
46	WOOD	44.2
47	TREVI SPA	39.5
48	SOUTHLAND HOLDINGS	38.0
49	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	37.8
50	COMBINED GROUP CONTRACTING CO. (K.S.C)	36.7

## Top International Design Firms

WATER SUPPLY		
RANK	FIRM	REVENUE (\$ MIL.)*
1	AECOM	536.0
2	STANTEC INC.	531.9
3	TETRA TECH	455.0
4	ARCADIS NV	341.8
5	JACOBS SOLUTIONS INC.	328.3
6	WSP GLOBAL INC.	199.9
7	ATKINSREALIS	188.3
8	GHD	143.2
9	MOTT MACDONALD	110.8
10	WORLEY LTD.	90.1
11	POWER CONSTRUCTION CORP. OF CHINA	79.4
12	ROYAL HASKONINGDHV	70.2
13	WOOD	63.4
14	KHATIB & ALAMI	58.4
15	SURBANA JURONG PRIVATE LTD.	55.0
16	CDM SMITH	54.2
17	AYESA	45.8
18	AFRY	43.0
19	FUGRO NV	42.7
20	BECA GROUP LTD.	37.5
21	SIDARA	37.1
22	COWI A/S	37.0
23	SWECO AB	35.0
24	HATCH LTD.	32.0
25	FICHTNER GROUP	29.7
26	ARUP GROUP LTD.	26.5
27	TPF SA	26.5
28	TECNICA Y PROYECTOS SA (TYPSA)	24.8
29	DORSCH HOLDING GMBH	23.2
30	ARTELIA	22.6
31	IDOM	22.6
32	ILF CONSULTING ENGINEERS	22.1
33	EGIS	21.5
34	RAMBOLL GROUP A/S	19.7
35	NIPPON KOEI GROUP	19.3
36	STUDI INTERNATIONAL	14.8
37	PARSONS CORP.	14.8
38	BLACK & VEATCH	13.8
39	ASSOCIATED CONSULTING ENGINEERS	13.5
40	TECHNICAL SPA	12.7
41	ITALCONSULT SPA	12.1
42	BECHTEL	11.0
43	CHINA NATIONAL MACHINERY INDUSTRY CORP.	10.4
44	ZUHAIR FAYEZ PARTNERSHIP CONSULTANTS	10.1
45	DOHWA ENGINEERING CO. LTD.	9.4
46	CES CONSULTING ENGINEERS SALZGITTER GMBH	9.2
47	DOLSAR ENGINEERING	7.7
48	ORIENTAL CONSULTANTS GLOBAL (OCHD)	7.6
49	GEOSYNTEC CONSULTANTS	7.2
50	INGEROP	7.0

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM ENVIRONMENT AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.

\*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

SEWER & SOLID WASTE		
RANK	FIRM	REVENUE (\$ MIL.)*
1	FCC SA	1,779.9
2	FERROVIAL	436.4
3	WEBUILD SPA	433.8
4	STRABAG SE	376.9
5	GRUPO ACS/HOCHTIEF	285.7
6	GHELLA SPA	179.0
7	MOTA-ENGIL	153.0
8	POWER CONSTRUCTION CORP. OF CHINA	151.7
9	OBAYASHI CORP.	136.0
10	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	134.0
11	PER AARSLEFF HOLDING A/S	131.6
12	SKANSKA AB	125.5
13	BOUYGUES	125.0
14	KUZU GROUP	123.0
15	ORASCOM CONSTRUCTION PLC	116.0
16	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	112.0
17	POSCO ENGINEERING & CONSTRUCTION	110.9
18	CHINA RAILWAY GROUP LTD.	110.9
19	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	105.8
20	CHINA GEO-ENGINEERING CORP.	97.2
21	SACYR	91.3
22	GRAHAM	90.0
23	OHLA	83.8
24	PENTA-OCEAN CONSTRUCTION CO. LTD.	74.7
25	YAPI MERKEZI INSAAT VE SANAYI AS	69.4
26	JAN DE NUL GROUP (SOFIDRA SA)	62.0
27	SOUTHLAND HOLDINGS	54.0
28	CHINA ENERGY ENGINEERING CORP. LTD.	52.1
29	PCL CONSTRUCTION ENTERPRISES	50.1
30	KAJIMA CORP.	49.6
31	MICHELS CORP.	48.0
32	LARSEN & TOUBRO LTD.	46.0
33	HASSAN ALLAM HOLDING	42.5
34	SAMSUNG ENGINEERING CO. LTD.	41.1
35	EFFAGE	40.0
36	SHANGHAI CONSTRUCTION GROUP CO. LTD.	39.4
37	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	37.0
38	CHINA RAILWAY CONSTRUCTION CORP. LTD.	27.0
39	BAUER AG	22.6
40	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	21.6
41	ATKINSREALIS	18.3
42	CHINA METALLURGICAL GROUP CORP.	17.4
43	WEEKS MARINE INC.	17.4
44	ALBERICI-FLINTCO	17.3
45	MWH	16.8
46	JIANGXI WATER AND HYDROPOWER CONSTR. CO. LTD.	16.4
47	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	13.4
48	CONSOLIDATED CONTRACTORS GROUP	11.5
49	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	10.5
50	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	10.2

## Top International Design Firms

SEWER & SOLID WASTE		
RANK	FIRM	REVENUE (\$ MIL.)*
1	STANTEC INC.	348.4
2	WSP GLOBAL INC.	219.3
3	JACOBS SOLUTIONS INC.	208.3
4	AECOM	170.3
5	MOTT MACDONALD	140.2
6	GHD	133.9
7	TETRA TECH	110.0
8	SWECO AB	105.0
9	ARCADIS NV	81.0
10	RAMBOLL GROUP A/S	73.3
11	COWI A/S	54.0
12	CDM SMITH	53.0
13	SIDARA	50.3
14	WOOD	47.6
15	KHATIB & ALAMI	38.7
16	EXP	38.1
17	ARUP GROUP LTD.	36.7
18	WORLEY LTD.	28.5
19	ROYAL HASKONINGDHV	27.0
20	ASSOCIATED CONSULTING ENGINEERS	25.5
21	ILF CONSULTING ENGINEERS	22.6
22	BLACK & VEATCH	22.5
23	CTI ENGINEERING GROUP	22.3
24	FICHTNER GROUP	19.2
25	TECNICA Y PROYECTOS SA (TYPSA)	16.9
26	HASSAN ALLAM HOLDING	15.9
27	ATKINSREALIS	15.5
28	AFRY	15.0
29	ARTELIA	13.9
30	AYESA	13.6
31	EGIS	11.6
32	IDOM	11.6
33	TPF SA	9.6
34	GRUPO ACS/HOCHTIEF	8.8
35	DOHWA ENGINEERING CO. LTD.	7.6
36	MEINHARDT GROUP INTERNATIONAL	7.6
37	NIPPON KOEI GROUP	7.5
38	LARSEN & TOUBRO LTD.	7.2
39	HDR	6.3
40	MORRISON HERSHFIELD	6.1
41	KOREA ENGINEERING CONSULTANTS CORP.	6.1
42	DORSCH HOLDING GMBH	6.0
43	NICHOLAS O'DWYER LTD.	5.8
44	GEOSYNTEC CONSULTANTS	5.6
45	ARABTECH JARDANEH	5.6
46	AAW CONSULTING ENGINEERS	5.5
47	POWER CONSTRUCTION CORP. OF CHINA	5.1
48	ITALCONSULT SPA	4.8
49	ORIENTAL CONSULTANTS GLOBAL (OCHD)	4.8
50	CES CONSULTING ENGINEERS SALZGITTER GMBH	4.6

\*BASED ON 2022 CONTRACTOR AND DESIGN FIRM REVENUE FROM ENVIRONMENT AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS IF AVAILABLE, OTHERWISE THE SUM OF SUBMARKET TOTALS.  
 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.



## Top International Contractors

WASTEWATER TREATMENT		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	210.3
2	GHELLA SPA	179.0
3	OBAYASHI CORP.	136.0
4	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	128.8
5	CHINA RAILWAY GROUP LTD.	110.9
6	POWER CONSTRUCTION CORP. OF CHINA	84.4
7	SKANSKA AB	80.3
8	YAPI MERKEZI INSAAT VE SANAYI AS	69.4
9	SACYR	56.6
10	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	49.3
11	PCL CONSTRUCTION ENTERPRISES	49.1
12	KAJIMA CORP.	46.1
13	LARSEN & TOUBRO LTD.	46.0
14	CHINA ENERGY ENGINEERING CORP. LTD.	41.2
15	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	35.0
16	BAUER AG	22.6
17	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	19.0
18	HASSAN ALLAM HOLDING	18.8
19	ATKINSREALIS	18.3
20	WEEKS MARINE INC.	17.4
21	ALBERICI-FLINTCO	17.3
22	MWH	16.8
23	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	16.5
24	JIANGXI WATER AND HYDROPOWER CONSTR. CO. LTD.	16.4
25	SAMSUNG ENGINEERING CO. LTD.	13.0

HAZARDOUS WASTE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	VINCI	160.0
2	DAEWOO ENGINEERING AND CONSTRUCTION CO. LTD.	67.5
3	BOUYGUES	47.0
4	RAMBOLL GROUP A/S	45.3
5	EIFFAGE	35.0
6	CHINA NERIN ENGINEERING CO. LTD	27.7
7	ECC	16.6
8	SKANSKA AB	13.4
9	ACCIONA	8.0
10	BECHTEL	5.0

## Top International Design Firms

WASTEWATER TREATMENT		
RANK	FIRM	REVENUE (\$ MIL.**)
1	STANTEC INC.	213.6
2	AECOM	167.5
3	JACOBS SOLUTIONS INC.	107.9
4	WSP GLOBAL INC.	80.1
5	MOTT MACDONALD	38.6
6	TETRA TECH	35.0
7	ARCADIS NV	34.5
8	RAMBOLL GROUP A/S	33.5
9	WORLEY LTD.	28.5
10	CDM SMITH	28.0
11	ROYAL HASKONINGDHV	25.4
12	ILF CONSULTING ENGINEERS	22.6
13	ARUP GROUP LTD.	21.9
14	HASSAN ALLAM HOLDING	15.9
15	BLACK & VEATCH	15.4
16	TECNICA Y PROYECTOS SA (TYPESA)	12.8
17	ASSOCIATED CONSULTING ENGINEERS	12.0
18	EGIS	11.6
19	ATKINSREALIS	11.3
20	SIDARA	10.7
21	AFRY	10.4
22	GRUPO ACS/HOCHTIEF	7.8
23	FICHTNER GROUP	7.2
24	LARSEN & TOUBRO LTD.	7.2
25	TPF SA	7.2

HAZARDOUS WASTE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV	971.7
2	WSP GLOBAL INC.	491.1
3	AECOM	439.4
4	RAMBOLL GROUP A/S	380.7
5	GHD	256.7
6	JACOBS SOLUTIONS INC.	239.9
7	TETRA TECH	230.0
8	ATKINSREALIS	210.1
9	WORLEY LTD.	118.1
10	STANTEC INC.	83.8

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 \*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2022 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

## Top International Contractors

TREATMENT & DESALINATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POWER CONSTRUCTION CORP. OF CHINA	449.1
2	CHINA ENERGY ENGINEERING CORP. LTD.	324.9
3	GS ENGINEERING & CONSTRUCTION	313.7
4	SICIM SPA	148.2
5	GRUPO ACS/HOCHTIEF	142.0
6	CHINA RAILWAY GROUP LTD.	136.7
7	CHINA NATIONAL MACHINERY INDUSTRY CORP.	92.4
8	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	80.2
9	YUKSEL INSAAT CO. INC.	70.2
10	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	67.5
11	CHINA PETROLEUM ENGINEERING CO. LTD.	67.1
12	SACYR	56.6
13	SHANXI CONSTRUCTION INVESTMENT GROUP CO. LTD.	31.5
14	ELECTRA LTD.	29.1
15	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	22.4
16	ALBERICI-FLINTCO	21.2
17	OBAYASHI CORP.	16.0
18	KIEWIT CORP.	13.6
19	HYUNDAI ENGINEERING CO. LTD.	13.2
20	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	13.2
21	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	9.6
22	CHINA RAILWAY CONSTRUCTION CORP. LTD.	9.0
23	NANTONG CONSTRUCTION GROUP CO. LTD.	7.3
24	THE ARAB CONTRACTORS (OSMAN AHMED OSMAN & CO.)	7.1
25	BLACK & VEATCH	6.2

TRANSMISSION LINES & AQUEDUCTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	376.4
2	POWER CONSTRUCTION CORP. OF CHINA	269.4
3	CHINA GEO-ENGINEERING CORP.	223.0
4	CGCOC GROUP CO. LTD.	184.4
5	SKANSKA AB	181.0
6	LARSEN & TOUBRO LTD.	154.2
7	OHLA	153.9
8	MAPA INSAAT VE TICARET AS	143.7
9	CHINA NATIONAL MACHINERY INDUSTRY CORP.	137.3
10	ZHENGTAI GROUP CO. LTD.	119.9
11	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	115.3
12	HUNAN CONSTRUCTION ENGINEERING GROUP CO. LTD.	97.3
13	LIMAK INSAAT SANAYI VE TICARET AS	90.0
14	CHINA RAILWAY CONSTRUCTION CORP. LTD.	85.0
15	GRUPO ACS/HOCHTIEF	80.0
16	BECHTEL	79.3
17	SHANGHAI URBAN CONSTRUCTION (GROUP) CORP.	66.3
18	AFCONS INFRASTRUCTURE LTD.	52.2
19	SOUTHLAND HOLDINGS	37.0
20	COMBINED GROUP CONTRACTING CO. (K.S.C)	36.7
21	SACYR	33.9
22	TRAYLOR CONSTRUCTION GROUP INC.	33.8
23	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	25.8
24	PETRO. PROJECTS AND TECH. CONSULT. CO. - PETROJET	20.6
25	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	19.7

## Top International Design Firms

TREATMENT & DESALINATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV	227.2
2	STANTEC INC.	206.1
3	TETRA TECH	150.0
4	AECOM	141.8
5	WSP GLOBAL INC.	81.1
6	WORLEY LTD.	72.8
7	POWER CONSTRUCTION CORP. OF CHINA	71.7
8	JACOBS SOLUTIONS INC.	55.4
9	MOTT MACDONALD	40.6
10	CDM SMITH	38.6
11	HATCH LTD.	32.0
12	DORSCH HOLDING GMBH	23.2
13	IDOM	22.6
14	EGIS	21.5
15	FICHTNER GROUP	20.4
16	ROYAL HASKONINGDHV	19.8
17	COWI A/S	15.2
18	BLACK & VEATCH	12.4
19	TECNICA Y PROYECTOS SA (TYPSA)	10.2
20	BECHTEL	9.7
21	RAMBOLL GROUP A/S	8.4
22	TPF SA	8.1
23	PARSONS CORP.	6.9
24	AFRY	4.5
25	ARTELIA	4.3

TRANSMISSION LINES & AQUEDUCTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	AECOM	244.4
2	JACOBS SOLUTIONS INC.	222.7
3	ATKINSREALIS	142.8
4	TETRA TECH	140.0
5	ARCADIS NV	85.6
6	STANTEC INC.	81.0
7	WSP GLOBAL INC.	69.4
8	MOTT MACDONALD	52.1
9	KHATIB & ALAMI	38.5
10	SIDARA	29.5
11	ARUP GROUP LTD.	22.5
12	COWI A/S	20.5
13	ILF CONSULTING ENGINEERS	19.1
14	CDM SMITH	15.7
15	TPF SA	11.6
16	FICHTNER GROUP	8.1
17	TECNICA Y PROYECTOS SA (TYPSA)	8.0
18	PARSONS CORP.	7.9
19	NIPPON KOEI GROUP	7.2
20	RAMBOLL GROUP A/S	7.0
21	ARTELIA	6.7
22	LARSEN & TOUBRO LTD.	6.0
23	ORIENTAL CONSULTANTS GLOBAL (OCHD)	5.5
24	CHINA NATIONAL MACHINERY INDUSTRY CORP.	5.5
25	TECHNITAL SPA	4.7

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## Top International Contractors

DAMS & RESERVOIRS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WEBUILD SPA	1,696.1
2	GRUPO ACS/HOCHTIEF	237.8
3	ZHONGMEI ENGINEERING GROUP LTD.	189.0
4	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	107.3
5	CHINA ENERGY ENGINEERING CORP. LTD.	69.3
6	BAUER AG	64.2
7	SHANDONG HI-SPEED GROUP CO. LTD.	63.6
8	SACYR	61.8
9	CITIC CONSTRUCTION CO. LTD.	52.0
10	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	44.5
11	CGCOC GROUP CO. LTD.	36.0
12	CHINA NATIONAL MACHINERY INDUSTRY CORP.	29.9
13	OBAYASHI CORP.	24.0
14	CHONGQING INTERNATIONAL CONSTRUCTION CORP.	22.7
15	CHINA RAILWAY CONSTRUCTION CORP. LTD.	13.0
16	BECHTEL	11.7
17	CONSOLIDATED CONTRACTORS GROUP	11.5
18	CHINA GANSU INT'L ECON. AND TECH. COOP. CO. LTD.	9.1
19	DL E&C CO. LTD.	5.7
20	JIANGXI WATER AND HYDROPOWER CONSTR. CO. LTD.	5.2

SANITARY & STORM SEWERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WEBUILD SPA	423.6
2	PER AARSLEFF HOLDING A/S	128.5
3	CHINA GEO-ENGINEERING CORP.	94.5
4	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	77.0
5	GRUPO ACS/HOCHTIEF	75.3
6	PENTA-OCEAN CONSTRUCTION CO. LTD.	74.7
7	SOUTHLAND HOLDINGS	54.0
8	OHLA	47.9
9	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	45.1
10	SHANGHAI CONSTRUCTION GROUP CO. LTD.	39.4
11	MICHELS CORP.	37.0
12	SKANSKA AB	25.1
13	HASSAN ALLAM HOLDING	23.6
14	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	20.5
15	CONSOLIDATED CONTRACTORS GROUP	11.5

## Top International Design Firms

DAMS & RESERVOIRS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	STANTEC INC.	244.9
2	TETRA TECH	165.0
3	AECOM	149.8
4	SURBANA JURONG PRIVATE LTD.	55.0
5	ROYAL HASKONINGDHV	50.3
6	JACOBS SOLUTIONS INC.	50.2
7	WSP GLOBAL INC.	48.0
8	ARCADIS NV	28.9
9	ATKINSREALIS	18.7
10	WORLEY LTD.	17.3
11	MOTT MACDONALD	16.7
12	ASSOCIATED CONSULTING ENGINEERS	7.5
13	DOLSAR ENGINEERING	7.4
14	ARTELIA	7.4
15	TPF SA	6.8
16	TECNICA Y PROYECTOS SA (TYPSA)	6.7
17	SIDARA	5.9
18	NIPPON KOEI GROUP	4.7
19	RAMBOLL GROUP A/S	4.3
20	TECHNITAL SPA	4.0

SANITARY & STORM SEWERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	121.8
2	STANTEC INC.	120.2
3	JACOBS SOLUTIONS INC.	100.4
4	MOTT MACDONALD	92.5
5	ARCADIS NV	44.4
6	TETRA TECH	40.0
7	KHATIB & ALAMI	38.7
8	EXP	38.1
9	SIDARA	36.3
10	RAMBOLL GROUP A/S	33.8
11	CTI ENGINEERING GROUP	22.3
12	CDM SMITH	22.3
13	COWI A/S	20.5
14	ASSOCIATED CONSULTING ENGINEERS	12.5
15	FICHTNER GROUP	9.5

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**Top International Contractors**

<b>SOLID WASTE</b>		
RANK	FIRM	REVENUE (\$ MIL.**)
1	OHLA	35.9
2	SACYR	34.7
3	SAMSUNG ENGINEERING CO. LTD.	27.7
4	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	10.4
5	HYUNDAI ENGINEERING CO. LTD.	3.5
6	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	3.5
7	CHINA RAILWAY CONSTRUCTION CORP. LTD.	3.0
8	POWER CONSTRUCTION CORP. OF CHINA	2.6
9	CHINA NUCLEAR ENGINEERING CORP. LTD.	2.5
10	PCL CONSTRUCTION ENTERPRISES	1.0

<b>CHEMICAL &amp; SOIL REMEDIATION</b>		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA RAILWAY GROUP LTD.	53.6
2	CHINA NERIN ENGINEERING CO. LTD	27.7
3	ECC	16.6
4	WORLEY LTD.	0.4
5	APTIM	0.1

**Top International Design Firms**

<b>SOLID WASTE</b>		
RANK	FIRM	REVENUE (\$ MIL.**)
1	TETRA TECH	35.0
2	COWI A/S	27.3
3	WSP GLOBAL INC.	17.2
4	STANTEC INC.	14.7
5	IDOM	9.0
6	MOTT MACDONALD	6.7
7	RAMBOLL GROUP A/S	6.0
8	GEOSYNTEC CONSULTANTS	4.9
9	ARUP GROUP LTD.	4.9
10	MORRISON HERSHFIELD	4.1

<b>CHEMICAL &amp; SOIL REMEDIATION</b>		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV	515.0
2	AECOM	240.6
3	RAMBOLL GROUP A/S	203.3
4	WSP GLOBAL INC.	124.1
5	TETRA TECH	105.0

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# 2023 Global Sourcebook Directory

## Australia

### Aurecon

Aurecon Centre, Level 8, 850 Collins Street,  
Melbourne, 3008  
Australia  
William Cox, Chief Executive Officer  
61399753000  
www.aurecongroup.com

### GHD

29 Christie Street  
St Leonards, 2065  
Australia  
Ashley Wright, CEO  
61292397100  
www.ghd.com

### Lendlease

Level 14, Tower Three, International Towers Sydney,  
Exchange Place, 300 Barangaroo Avenue  
Barangaroo, 2000  
Australia  
Tony Lombardo, Group Chief Executive Officer and  
Managing Director  
(02) 9236 6111  
www.lendlease.com

### Meinhardt Group International

Level 12, 501 Swanston St.  
Melbourne, 3000  
Australia  
Omar Shahzad, Group CEO  
61 3 8676 1200  
www.meinhardtgroup.com

### Worley Ltd.

L17 141 Walker St  
North Sydney, 2060  
Australia  
Chris Ashton, Chief Executive Officer  
www.worley.com

## Austria

### ILF Consulting Engineers

Feldkreuzstrasse 3  
Rum/Innsbruck, 6063  
Austria  
Klaus Lässer, CEO  
43 512 2412  
www.ilf.com

### PORR AG

Absberggasse 47  
Vienna, 1100  
Austria  
Karl-Heinz Strauss, CEO  
0043 50 626 0  
www.porr-group.com

### STRABAG SE

Donau-City-Str. 9  
Vienna, 1220  
Austria  
Klemens Haselsteiner, BBA, BF  
43 1 22422 1091  
www.strabag.com

## Bahrain

### SSH

4th Floor, Almoayyed Tower, Seef District  
Manama, P.O. Box 18699  
Bahrain  
Matthew Squires, Chief Executive Officer  
00973 175 80 758  
www.sshic.com

## Belgium

### BESIX

Avenue des Communautés 100  
Brussels, 1200  
Belgium  
Pierre Sironval, Chief Executive Officer  
3224026211  
www.besix.com

- This directory contains firms ranked on one or more of the Sourcebook lists, the Top 225 International Designs Firms and the Top 250 International Contractors list.



# 2023 Global Sourcebook Directory

## **TPF SA**

Avenue de Haveskercke 46  
BRUSSELS, B-1190  
Belgium  
Thomas Spitaels, President & CEO  
3223701970  
www.tpf.eu

## **Tractebel**

36 boulevard Simon Bolivar  
Brussels, 1000  
Belgium  
Philippe VAN TROEYE, CEO  
32 2 773 99 11  
tractebel-engie.com/en

## **Canada**

### **Aecon Group Inc.**

20 Carlson Court, Suite 105  
Toronto, Ontario M9W 7K6  
Canada  
Jean-Louis Servranckx, President and Chief Executive Officer  
416-297-2600  
www.aecon.com

### **AtkinsRealis**

455 boul. Rene-Levesque Ouest  
Montreal, Quebec H2Z1Z3  
Canada  
Ian Edwards, President & Chief Executive Officer  
514-393-1000  
www.atkinsrealis.com

### **EllisDon Corp.**

1004 Middlegate Rd  
Mississauga, ON L4Y1M4  
Canada  
Kieran Hawe, CEO & President  
9058968900  
www.ellisdon.com

### **Graham**

10840 27 Street SE  
Calgary, AB T2Z 3R6

## Canada

Andy Trewick, PRESIDENT & CHIEF EXECUTIVE OFFICER  
403.570.5000  
grahambuilds.com

### **Hatch Ltd.**

2800 Speakman Drive  
Mississauga, Ontario L5K 2R7  
Canada  
J Binachini, CEO  
905-855-7600  
www.hatch.com

### **Pomerleau inc.**

521 6e Avenue N  
Saint-Georges, QC G5Y 0H1  
Canada  
Pierre Pomerleau, President, Chief Executive Officer  
418-228-6688  
www.pomerleau.ca

### **Stantec Inc.**

Suite 300, 10220 - 103 Ave NW  
Edmonton, Alberta T5J 0K4  
Canada  
Gord Johnston, President and CEO  
949-923-6000  
www.stantec.com

### **WSP Global Inc.**

1600 René-Lévesque Blvd. W., 18th Floor  
Montreal, Quebec H3H 1P9  
Canada  
Alexandre L'Heureux, President & CEO  
www.wsp.com

## **Chile**

### **SalfaCorp SA**

Avenida Presidente Riesco 5335, Floor 11, Las Condes  
Santiago  
Chile  
Jorge Meruane Boza, Corporate Chief Executive Officer

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56 2 2902 0000  
www.salfacorp.com

## China

### **Anhui Construction Engineering Group Co. Ltd.**

No.459, Huangshan Road  
Hefei City, 230001  
China  
Li Yougui, General Manager  
86-551-62865102  
www.aceg.com.cn

### **Arcplus Group PLC**

258 Shimener Road  
China  
Weihua Gu, Board chairman  
86 21 52524567  
www.arcplus.com.cn

### **Beijing Construction Engineering Group Co. Ltd.**

No.1 Guanglian Road, Xicheng District  
Beijing, 100055  
China  
Mr. Fan Jun, Charirman of the Board  
0086-10-63927194  
bcegi.bcegc.com

### **Beijing Institute of Architectural Design**

No.62 South Lishi Road, Xicheng District, Beijing  
China  
Beijing, 100045  
China  
Zhang Yu, General Manager  
86-010-88021572  
www.biad.com.cn

### **Beijing Urban Construction Group Co. Ltd.**

No. 18, Beitaipingzhuang Road, Haidian District  
Beijing, 100088  
China  
Chen Daihua, CEO  
8610-62091523  
www.bucg.com

### **CCDI Group**

A4 Building, 1688 Guo Quan Road  
Shanghai, 200438  
China  
Mr. Shan Zengliang, CEO  
86-61802923  
www.ccdi.com.cn

### **CGCOC Group Co. Ltd.**

No.A09, No.33 Kehui Rd, Chaoyang District, Beijing  
Beijing, 100101  
China  
Li, Hongyan, Mr. President  
0086-10-84373670  
www.cgcoc.com.cn

### **CISPDR Corporation**

No. 1863, Jiefang Ave.  
Wuhan, 43010  
China  
Yang Qigui, National Survey and Design Master  
86-27-82927515  
www.cjwsjy.com.cn

### **CITIC Construction Co. Ltd.**

27/F, Tower B, TYG Center, C2 Dongsanhuan  
Beilu, Chaoyang District, Beijing, China  
Beijing, 100027  
China  
Mr. Tao Yang, President  
010-87996000  
www.cici.citic.com

### **Central South Architectural Design Institute Co. Ltd.**

No.19, Zhongnan Road  
Wuchang District, Wuhan, 430061  
China  
Li Ting, Party Committee Secretary & President  
027-87337160  
www.csadi.com.cn

### **China Aluminum International Eng'g Corp. Ltd.**

Building C, No.99 Xingshikou Road, Haidian District

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Beijing, 100093  
China  
Li Yihua, CEO  
(8610)82406888/82406999  
www.chalieco.com.cn

## **China Bengbu Int'l Tech. & Econ. Coop. Ltd.**

NO.18, Meishan Road  
Hefei City, 230000  
China  
LIU ZIQIANG, Chairman  
0551-67118006  
www.cbitec.cn

## **China Communications Construction Group Ltd.**

85, Deshengmenwai Street, Xicheng District  
Beijing, 100088  
China  
Mr.Tongzhou Wang, Chairman  
86-10-82016655  
www.ccccltd.cn

## **China Design Group Co. Ltd.**

No.9 Ziyun Ave.  
Nanjing, 210014  
China  
YAO Yu  
025-88018888  
www.cdg.com.cn

## **China Electric Power Equipment And Tech. Co. Ltd.**

No.8 Nanheng East Street  
Xicheng District, Beijing, 100052  
China  
ShanShewu, Chairman  
86-010-63412099  
www.cet.sgcc.com.cn

## **China Energy Engineering Corp. Ltd.**

Building 1, No.26, Xidawang Road, Chaoyang District  
Beijing, 100022  
China  
Song Hailiang, Chairman of the board

86-10-59098923  
www.ceec.net.cn

## **China Gansu Int'l Econ. and Tech. Coop. Co. Ltd.**

No.575 East Xijin Road, Lanzhou, Gansu Province,  
China  
Lanzhou, 730050  
China  
li Wen En, Chief Executive officer  
86 931 2659950  
www.cgicop.com

## **China General Technology (Group) Holding Co. Ltd.**

Genertec Plaza, No.90, Xisanhuan Zhong Lu, Feng Tai  
District  
Beijing, P.R.China, 100055  
China  
LU YI MIN, GENERAL MANAGER OF GENERTEC  
0086 10 81169123  
www.genertec.com.cn

## **China Geo-Engineering Corp.**

No. 92, Xiangshan South Road, Haidian District.  
Beijing, China  
Beijing, 100093  
China  
Sun Jinhong, Chairman  
0086-10-82408586  
www.chinageo.com.cn

## **China Henan Int'l Cooperation Group Co. Ltd.**

No. 11 Dongming Road  
Zhengzhou, 450004  
China  
Mr. Cheng Jian, General Manager  
00 86 371 66348000  
www.c-chico.com

## **China International Water & Electric Corp. (CWE)**

Building T1, Poly Metropolitan, #156 Xinhua North  
Rd, Tongzhou District, Beijing, P.R.China  
Beijing, 101149  
China  
Jiang Shouguo, Executive Director

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86-10-59302184

www.cwe.cn

## **China Jiangsu Int'l Econ. and Tech. Coop. Group Ltd.**

5 West Beijing Road

Nanjing, 210008

China

Mr. Qinbo Song, Chairman of the Board

0086-25-83277713

www.zjgj.com.

## **China Jiangxi Int'l Econ. and Tech. Coop. Co. Ltd.**

No.1198 Fenghezhong Avenue, Honggutan

Nanchang, 330083

China

Zhang Jianan, President

0086-791-86372509

www.cjic.cn

## **China Metallurgical Group Corp.**

Room 3521, MCC Tower, No.28 Shu guang xi

li,Chaoyang district

Beijing, 100028

China

Chen Jianguang, President

8610-59869430

www.mcc.com.cn

## **China National Aero-Technology Int'l Eng'g Corp.**

FL 6, No. 18 Beichen East Road, Chaoyang District,

Beijing

Beijing, 100101

China

Liu Hongguang, President & Legal Representative

0086 10 84970337

www.catic-eng.com

## **China National Chemical Eng'g Group Corp. Ltd.**

CNCEC building, No. 2 Dongzhimennei Avenue,

Dongcheng District

Beijing, 100007

China

Mr. Dai Hegen, Chairman

86-010-56765645

www.cncec.com.cn

## **China National Machinery Industry Corp.**

No. 3 Danling Street, Haidian District

Beijing, 100080

China

Zhang Xiaolun, President

010-82688794

www.sinomach.com.cn

## **China Nerin Engineering Co. Ltd**

888 Qianhu Road, Hongjiaozhou, Nanchang, China

Nanchang, 330031

China

Wu Runhua, General Manager

8679186757261

www.nerin.com

## **China Nonferrous Metal Ind. For. Eng'g and Constr.**

NFC Building, 10 Anding Road

Beijing, 100029

China

Qin Junman, President

86-10-84427766

www.nfc.com.cn

## **China Nuclear Engineering Corp. Ltd.**

No.A1, CNNC ATOM City, Panlong Road 500, Qingpu District

Shanghai, 201702

China

Zhou Shenwei, Deputy General Manager

0086-021-64150507

www.cnecc.com

## **China Petroleum Engineering Co. Ltd.**

CNPC Technology Innovation Base, Shahe, Changping District

Beijing, 102200

China

Bai Xuefeng, Chairman, Board of Directors

0086-10-80163176

www.cpec.cnpc.com.cn

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## **China Railway Construction Corp. Ltd.**

No. 40 Fuxing Road  
Beijing, 100855  
China  
Wang Jianping, Chairman  
'861052689700  
www.crcc.cn

## **China Railway Design Corp.**

No.109, DongQi Road, Airport Economic Zone,  
Tianjin, China  
Tianjin, 300308  
China  
Fang Tianbin, Chairman of the Board  
86-22-26178328  
www.crdc.com

## **China Railway Group Ltd.**

No.69 Fuxing Road, Haidian District  
Beijing, 100039  
China  
Wenjian CHEN, President  
86-13717891526  
www.crec.cn

## **China State Construction Engineering Corp. Ltd.**

CSC Fortune International Center, Building 3, No.5,  
Anding Road  
Chaoyang District, Beijing, 100029  
China  
Zheng Xuexuan, Chairman  
0086-10-86498654  
www.cscec.com

## **China Triumph International Engineering Co. Ltd.**

27F, Zhongqi Building. No. 2000, North. Zhongshan  
Road  
Shanghai, 200333  
China  
Liyun Ma  
(86)21-52916280  
www.ctiec.net

## **China Wu Yi Co. Ltd.**

Unit 1, 4/F Zhi Di Plaza, No. 89, Wu Si Road  
Fuzhou, 350003  
China  
Zheng Jingchang, Chairman of Board  
86-591-83170100  
www.Chinawuyi.com.cn

## **Chongqing International Construction Corp.**

No.80, XingGuang Rd., New North Zone, Chongqing  
Chongqing, 401121  
China  
Zhou Fanming, Chairman of the board  
86-23-63076568  
www.cico.com.cn

## **Dongfang Electric Corp.**

18 Xixin Avenue, High- tech Zone West Park  
Chengdu, 611731  
China  
Yu Peigeng, CEO  
86-28-87898664  
www.dongfang.com.cn

## **Greenland Infra. Constr. Group Co. Ltd.**

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Rd.(s)  
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China  
Chen Jun  
+86 189 1809 4495  
www.greenlandjj.com

## **Harbin Electric International Co. Ltd.**

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Harbin, 150028  
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45158591894  
www.china-hei.com

## **Hebei Construction Group Co. Ltd.**

No.146 Youyi North St. Shijiazhuang, Hebei, China  
Shijiazhuang, 050000  
China

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Zhang Tianping, chief executive  
0086-311-68092837  
www.hbjgt.cn

## **Hunan Construction Engineering Group Co. Ltd.**

No.788 South Furong Rd.  
Changsha, 410001  
China  
Can Dianwei, President  
73185628881

## **Hunan Road & Bridge Constr. Group**

No.239, South Shaoshan Road  
Changsha, 410004  
China  
Wang Shufei, Chairman of the Board  
0086-731-85590461  
www.hnrb.cn

## **JSTI Group**

No.8 East Funchunjiang Road, Jianye District  
Nanjing, 210019  
China  
Xiaoning Zhu, President  
(0086)13851649737  
www.jsti.com

## **JiangSu TongZhou No.4 Constr. Group Co. Ltd.**

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TongZhou District  
NanTong, 226351  
China  
Shao YaXin, Senior Engineer  
0086-513-82591151  
www.tzsj.com.cn

## **Jianglian Heavy Industry Group Co. Ltd.**

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Development Zone, Nanchang, Jiangxi  
Nanchang, 330096  
China  
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www.jlianco.com

## **Jiangsu Nantong No.2 Construction**

NO.683, Renmin (M) Road  
QIDONG, 226200  
China  
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0513-83316463  
www.NT2J.cn

## **Jiangsu Provincial Construction Group Co. Ltd.**

11F, Building A, Shengjian Mansion, No.99  
Yunlongshan Road  
Nanjing, 210019  
China  
Jiang Ning, Chief Executive Officer  
0086-025-87753181  
www.jpcec.com

## **Jiangsu Zhongnan Construction Industry Group Co.Ltd**

Room 1705 of zhongnan, NO.899, Shanghai Rd, Haimen  
City, Jiangsu Province  
NANTONG, 226100  
China  
Tingfeng Zhu, Chairman of the Board  
  
13862907080  
zcb.zhongnangroup.cn

## **Jiangxi Construction Engineering (Group) Corp. Ltd.**

No.956 Beijing East Road, Qinshanhu District  
Nanchang, 330029  
China  
Shaohua Lin, Chairman of the board  
0791-86386577  
www.jxjg.com

## **Jiangxi Water and Hydropower Constr. Co. Ltd.**

No.32 Construction Science and Technology Industrial  
Park  
Nanchang, 3303200  
China  
Wang yuandan, CEO

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0086-0791-86659865

[www.jxszchina.com](http://www.jxszchina.com)

## **Long Jian Road & Bridge Co. Ltd.**

No.109 Songshan Road Nangang Dist

Harbin City, 150090

China

Tian Yulong, President

0451-81300013

[www.longjianlq.com](http://www.longjianlq.com)

## **Longxin Construction Group Co. Ltd.**

No. 1 East Beijing Rd., Haimen District

Nantong, 226100

China

Chen Zuxin, Chairman

0086-513-82212425

[www.lxgroup.cn](http://www.lxgroup.cn)

## **Nantong Construction Group Co. Ltd.**

136 Duanjiaba Rd.

Nantong, 226006

China

Zhang Xiangyang, Chairman

0086-513-89089796

[www.ntjgit.com](http://www.ntjgit.com)

## **Norinco International Cooperation Ltd.**

NO.6 Zhengda Road,Shijingshan District

Beijing, 100040

China

Shan Jun, President

010 6813 7562

[www.norinco-intl.com](http://www.norinco-intl.com)

## **Offshore Oil Engineering Co. Ltd.**

No. 199, Haibin 15th Road, Tianjin Port Free Trade

Zone

Tian Jin, 300461

China

Wang Zhangling, President

0086-22-59898946 / 59899854

[www.cnoocengineering.com](http://www.cnoocengineering.com)

## **Power Construction Corp. of China**

No.22, Chegongzhuang West Road, Haidian

District,Beijing

Beijing, 100048

China

Wang Bin, chief executive officer

86-10-58382380

[en.powerchina.cn](http://en.powerchina.cn)

## **Qingjian Group Co. Ltd.**

5#, Nanhaizhi Road,

Qingdao, 266001

China

Wang Dehai, CEO

0086-532-88258892

[www.cnqc.com](http://www.cnqc.com)

## **SINOPEC Engineering (Group) Co. Ltd.**

Building 8, Shenggujiayuan, Shenggu Middle

Road,Chaoyang District

BEIJING, 100029

China

Zhang Xinming, Chief Executive Officer

0086-10-56730563

[www.segroup.cn](http://www.segroup.cn)

## **Shaanxi Construction Engineering Holding Group Co. Ltd.**

No.199 North Street

Xi'an, 710003

China

Zhang Yiguang, Chairman

+86 029-87281269

[www.sxjgkg.com/index.html](http://www.sxjgkg.com/index.html)

## **Shandong Electric Power Eng'g Consulting**

106 Minzi Qian Road, Lixia District

Jinan, 250013

China

Wang Leiming, Chairman

0086-531-85182940

[www.sdepci.com](http://www.sdepci.com)

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## **Shandong Hi-Speed Dejian Group Co. Ltd.**

Dejian Building, Sanba East Road  
Dezhou City, 253000

China

Zhao Jianqiang, Chairman of Board

0534-2266959, 0534-2266879

[www.cnsddj.com](http://www.cnsddj.com)

## **Shandong Hi-Speed Group Co. Ltd.**

No. 8 Long'ao North Road

Jinan, 250098

China

Wang Qifeng, Chairman

0086 531 89250285

[en.sdhs.com/index](http://en.sdhs.com/index)

## **Shandong Zijian Construction Group Co. Ltd.**

No.53 Xingyuan East Road Zhangdian District

Zibo, 255000

China

Xia Shuqiang, General Manager

8605332287656

[www.zj1949.com](http://www.zj1949.com)

## **Shanghai Construction Group Co. Ltd.**

No.666, East Daming Road, Shanghai, China

Shanghai, 200080

China

Xu Zheng, Chairman of the Board

0086-21-55885959

[www.scg.com.cn](http://www.scg.com.cn)

## **Shanghai Electric Group Co. Ltd.**

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Shanghai, 201100

China

Leng Weiqing, Chairman of the Board

+86(21)34116666

[www.shanghai-electric.com](http://www.shanghai-electric.com)

## **Shanghai Urban Construction (Group) Corp.**

No.1099 South Wanping Rd. Xuhui District,

Shanghai, PR China

Shanghai, 200032

China

ZHOU Wenbo, CEO of SUCG

+86-21-58301000

[www.stec.net](http://www.stec.net)

## **Shanxi Construction Investment Group Co. Ltd.**

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Taiyuan, 30032

China

Bo Sun, Chairman of the Board

0086-15035121219;0086-13935161099

[www.sxcig.com](http://www.sxcig.com)

## **Shenyang Yuanda Aluminum Indus. Eng'g Co. Ltd.**

No. 20, Street No. 13, Economic&Technological

Development Zone,

Shenyang, 110027

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[www.yuandacn.com](http://www.yuandacn.com)

## **Sichuan Road and Bridge (Group) Co. Ltd.**

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China

Wang Zhonglin, Managing Director

8613908223981

[www.scrbg.com](http://www.scrbg.com)

## **Sinoma International Engineering Co. Ltd.**

No.16th Wangjing North Road, Chaoyang District

Beijing, 100020

China

Mr.Yin Zhisong, CEO

[www.sinoma.com.cn](http://www.sinoma.com.cn)

## **Sinopec Zhongyuan Petroleum Engineering Ltd.**

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Puyang City, 457001

China

Song Baojian, General Manager

0086-0393-4824402

[zpebint.sinopec.com](http://zpebint.sinopec.com)

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## **Sinosteel Equipment & Engineering Co. Ltd.**

SINOSTEEL PLAZA,8 HAIDIAN ST.,  
HAIDIAN,BEIJING,P.R. CHINA

BEIJING, 100080

China

PENGCHENG LU, SENIOR ENGINEER

0086-10-62688188

mecc.sinosteel.com

## **TBEA Co. Ltd.**

No. 189 South Beijing Road, Changji, Xinjiang, China

Changji, 831100

China

Huang Hanjie, CEO

0086 994 6553079

www.tbea.com

## **Tianyuan Construction Group Co. Ltd.**

No. 63, Yinqueshan Road

Linyi City, 276002

China

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www.cntyjt.com

## **Tongji Architectural Design (Group) Co. Ltd.**

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China

Tang Shuoning, Director & General Manager

86-21-65987788

www.tjad.cn

## **Weihai International Economic & Technical Cooperative Co. Ltd.**

NO.16, Tongyi Road, Weihai, China

Weihai, 264200

China

Zhang Shicheng, Chairman of the Board

0086-631-5218791

www.wietc.com

## **XPCC Construction & Engineering (Group) Co. Ltd.**

No.113, Xinming Road,

Urumqi,, 830092

China

Xia Jianguo, Chairman of the board of directors

0991-2639625

www.xbjg.com

## **Xian Electric Engineering Co. Ltd.**

No. 7 Tangxing Road, Xi'an , Shaanxi, P.R.China

XIAN, 710075

China

Zhifu Li, Executive Director

0086-29-88312666

www.xianelectric.com.cn

## **Yanjian Group Co. Ltd.**

No. 100 Nan Hong Street

Yantai, 264000

China

Tang Bo, President

0086-535-6636260

www.yanjian.com.cn

## **Yunnan Const. and Invest. Holding Grp. Co. Ltd.**

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Economic and Technological Development Zone

Kunming, 650501

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Mr. Chen Zujun, Chairman of the Board

18208880096

www.ynjg.com

## **Zhejiang Communications Constr. Group Co. Ltd.**

21F, Qianjiang Building, No. 2031 Jiangling Road,  
Binjiang District,

Hangzhou, 310051

China

Wu Wei, Director of board

86-18868736890

www.zjjtgc.com

## **Zhejiang Construction Investment Group Co. Ltd.**

Jiantou Mansion, 52 West Wensan Road

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China

SHEN Defa, Chairman of the Board

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0086-571-88235979

www.cnzgc.com

## **Zhejiang Dongyang Third Constr. Eng'g Co. Ltd.**

No.1 Zhenxing Road

Dongyang, 322100

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ZHOU GAOLIANG, General Manager

0579-86633708

www.dy3j.com

## **Zhengtai Group Co. Ltd.**

Sanshui Street No.888

TAIZHOU, 225500

China

Fan Hongfu, General Manager

13641599930

www.ztjt.com.cn

## **Zhongding International Engineering Co. Ltd**

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Zhao Guisheng, Chairman of the board

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## **Zhongmei Engineering Group Ltd.**

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Nanchang, 330001

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86-791-85210611

www.zm.jxsdjt.cn

## **Zhongtian Construction Group Co. Ltd.**

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Wu Haitao, Chairman of the board of directors

0571-28022252

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www.cowi.com

### **Per Aarsleff Holding A/S**

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45 8744 2222

www.aarsleff.dk

### **Ramboll Group A/S**

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0045 5161 1000

ramboll.com

## **Egypt**

### **AAW Consulting Engineers**

37 Babel St, Dokki, Giza

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202 37617737

www.aawholding.com

### **AMG Al Amar Consulting Group SA**

20 Street 302, New Maadi

Cairo, P.O. Box 50, Sakr Koraish, Maadi 11931

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## Egypt

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20-2-2517 76 70-5

[www.alamargroup.com](http://www.alamargroup.com)

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Marwan Kamal, CEO

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[www.distancestudio.com](http://www.distancestudio.com)

## ECG Engineering Consultants Group SA

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Cairo, 11765

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20223524740

[www.ecgsa.com](http://www.ecgsa.com)

## Ehaf Consulting Engineers

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## Egyptian Maintenance Co. (EMC)

20 Ninety St. City Admin Center

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2 02 26189999

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Maadi

Cairo, 11472

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## Hassan Allam Holding

Cairo Egypt

Cairo, 1136

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Hassan Allam, CEO

## Petro. Projects and Tech. Consult. Co. - PETROJET

Plot 21~26 – Sector 1, City Center Fifth Settlement

New Cairo, 11835

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002 01225109455

[www.petrojet.com.eg](http://www.petrojet.com.eg)

## Sabbour Consulting

4,4a Ramlet Bolaq St, Arkadia Building, Cournish El-

Nile, Cairo, Egypt

Cairo, 81765

Egypt

Omar Sabbour, Engineer

2 25792082

[www.sabbour.com](http://www.sabbour.com)

## The Arab Contractors (Osman Ahmed Osman & Co.)

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Nasr City, 11548

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2 01110003458

[www.arabcont.com/english](http://www.arabcont.com/english)

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### Artelia

16 rue Simone Veil

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Saint Ouen, 93400  
France  
Benoit CLOCHERET, Chief Executive Officer  
476334000  
www.arteliagroup.com

## **Assystem**

9/11 Allée de l'Arche  
Courbevoie, 92671  
France  
Dominique LOUIS, Chairman and CEO  
www.assystem.com

## **Bouygues**

32 Avenue Hoche  
Paris, 75008  
France  
Olivier Roussat, CEO  
33144201000  
www.bouygues.com

## **EGIS**

15 Av. du Centre  
Guyancourt, 78280  
France  
GERMAIN Laurent, CEO  
www.egis-group.com/fr

## **Eiffage**

3-7 place de l'Europe  
Vélizy-Villacoublay, 78 140  
France  
Benoit de Ruffray, Président Directeur Général  
Eiffage  
www.eiffage.com

## **INGEROP**

18 rue des deux gares  
Rueil Malmaison, 92530  
France  
METZ, Chairman  
33149045500  
www.ingerop.com

## **SETEC**

42 - 52 Quai de la Rapée  
CS 71230, Paris cedex 12, 75583  
France  
Michel KAHAN, President & CEO  
331 82 51 57 36  
www.setec.fr/en

## **SYSTRA**

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33 1 40 16 61 00  
www.systra.com/en

## **VINCI**

1973 boulevard de la Défense  
Nanterre, Cedex 92757  
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Xavier HUIILLARD, Chairman and Chief Executive  
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33 1 57 98 61 00  
www.vinci.com

## **Germany**

### **BAUER AG**

BAUER-Str. 1  
Schrobenhausen, 86529  
Germany  
Arnulf Christa, Managing Director/Board Chairman  
49 8252 97-1178  
www.bauer.de

### **CES Consulting Engineers Salzgitter GmbH**

Nordstr. 23  
Braunschweig, 38106  
Germany  
Dr.-Ing. Ralf Meyerhoff, Managing Director  
49531317040  
www.ces.de

### **Dorsch Holding GmbH**

Hugo-Eckener-Ring  
Frankfurt am Main, 60549

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## Germany

Ayman Haikal, CEO  
49 69 130257 0  
www.dorsch.de

### **Drees & Sommer**

Obere Waldplätze 13  
Stuttgart, 70569  
Germany  
Steffen Szeidl, CEO  
4971113170  
www.dreso.com

### **Exyte GmbH**

Loewentorbogen 9b  
Stuttgart, 70376  
Germany  
Dr. Wolfgang Buechele, CEO and Chairman  
49 711 8804 0000  
www.exyte.net

### **Fichtner Group**

Sarweystr. 3  
Stuttgart, 70191  
Germany  
Dr. Andreas Weidler, Managing Director and CEO  
49 711 89950  
www.fichtner.de

## Greece

### **Associated Consulting Engineers**

Frangoklissias Ave. 4.  
Athens, 15125  
Greece  
Hani Hakim, Chairman  
30 210 6105090  
www.ace-intl.com

### **Consolidated Contractors Group**

62B KIFISSIAS AVE., MAROUSSI  
ATHENS, 15110  
Greece  
JAMAL BAHLAWAN, CEO  
30 210 6182000  
www.ccc.net

## India

### **Afcons Infrastructure Ltd.**

16, SHAH INDUSTRIAL ESTATE, OFF VEERA DESAI  
ROAD, AZAD NAGAR, ANDHERI WEST  
MUMBAI, 400053  
India  
Mr. S. Paramasivan, Managing Director  
91-22-67191000  
www.afcons.com

### **Ircon International Ltd.**

C-4, District Centre, Saket  
New Delhi, 110017  
India  
Brijesh Kumar Gupta, Chairman & Managing Director  
9560595086  
www.ircon.org

### **Larsen & Toubro Ltd.**

L&T House, N.M. Marg, Ballard Estate  
Mumbai, 400001  
India  
S N Subrahmanyam, Chief Executive Officer and  
Managing Director  
91 22 67525656  
www.larsentoubro.com

### **Shapoorji Pallonji & Co. Private Ltd.**

A-70 Nagnindas Master Road, Fort  
Mumbai, 400023  
India  
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91 22 67490000  
www.shapoorji.in

### **TATA Consulting Engineers Ltd.**

Unit No. NB 1502 & SB 1501, 15th Floor, Empire  
Tower, Cloud City Campus, Opp. Reliable Tech Park,  
Thane-Belapur Road, Airoli  
Navi Mumbai, 400708  
India  
Amit Sharma, Managing Director  
www.tce.co.in

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## **Tata Projects Ltd.**

Hiranandani Business Park, 2nd, 3rd & 4th floor, One  
Boulevard, Powai  
Mumbai, 400076  
India  
Vinayak Pai, Managing Director & Chief Executive  
officer  
91-22-67402900  
www.tataproyects.com

## **Iran**

### **Blue&P Infrastructure Group**

No. 16, Naghdi Ave., North Mofateh St.  
Tehran, 1576649119  
Iran  
Mahdi Mirzaei, Managing Director  
982191072222  
www.blueandpgroup.com

## **Ireland**

### **Nicholas O'Dwyer Ltd.**

Nutgrove Office Park  
Dublin, D14 V3F6  
Ireland  
Jim Oliver, Managing Director  
35312969000  
www.nodwyer.com

### **PM Group**

Kilakee House, Belgard Square  
Dublin, D24 XFW2  
Ireland  
Dave Murphy, Chief Executive Officer  
353 1 4040700  
www.pmgroun-global.com

## **Israel**

### **Electra Ltd.**

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Ramat Gan, 5250501  
Israel  
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97237535666  
www.electra.co.il/en

## **Italy**

### **3TI PROGETTI**

via delle sette chiese 142  
roma, 145  
Italy  
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390655301518  
www.3tiprogetti.it

### **ACPV Architects Srl**

Via Cerva, 4  
Milan, 20122  
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39027638801  
www.acpvarchitects.com

### **ATiproject Srl**

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Pisa, 56124  
Italy  
Branko Zrnic, Founding partner  
39050578460  
www.atiproject.com

### **Bonatti**

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Parma, 43122  
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39 0521 6091  
www.bonatti.it

### **DBA Group**

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Villorba (TV), 31020  
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www.dbagroup.it

### **Danieli & C. O.M. SpA**

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Buttrio, 33042  
Italy

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Giacomo Mareschi Danieli, eng.

390432195811

[www.danieli.it](http://www.danieli.it)

## **Ghella SpA**

Via Pietro Borsieri, 2a

Rome , 195

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Enrico Ghella, CEO

39 06456031

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## **ICM SpA**

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Vicenza, 36100

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Darik Gastaldello, Eng.

390444336111

[www.gruppoicm.com/en](http://www.gruppoicm.com/en)

## **IRD Engineering**

Lungotevere delle Navi, 30

Rome, 196

Italy

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390697611271

[www.irdeng.com](http://www.irdeng.com)

## **ITINERA SpA**

Via Mario Balustra, 15

Tortona, 15057

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Luciano Giovanni Reguzzo, Professional Degree

3901318691

[www.itinera-spa.it](http://www.itinera-spa.it)

## **Impresa Pizzarotti & C. SpA**

VIA ADORNI, 1

PARMA, 43121

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5212021

[www.pizzarotti.it](http://www.pizzarotti.it)

## **Italconsult SpA**

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Rome, 161

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39064417321

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## **Italferr SpA**

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## **Maeg Costruzioni SpA**

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390438441558

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ALESSANDRO BERNINI, Chief Executive Officer Title

39 02 63131

[www.mairetecnimont.com](http://www.mairetecnimont.com)

## **Manens-Tifs SpA**

Corso Stati Uniti, 56

Padova, 35127

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390498705110

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## **PROGER SpA**

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ROME, 193

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MARCO LOMBARDI, ENGINEER

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## **Politecnica Ingegneria**

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MODENA, 41126

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39059356527  
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## **SICIM SpA**

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www.salcef.com

## **Technital SpA**

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Alberto Scotti, President and CEO  
39 0458053611  
www.technital.net

## **Trevi SpA**

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Cesena, 47522

Italy  
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39 0547 319111  
www.trevispa.com

## **webuild SpA**

Centro Direzionale Milanofiori, Strada 6, Palazzo L

Rozzano (MI), 20089  
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39 0244422111  
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## **Japan**

### **CTI Engineering Group**

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Tetsumi Nakamura, Representative Director &  
President, CEO  
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www.ctie.co.jp

### **Chiyoda Corp.**

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President & CEO  
www.chiyodacorp.com/en

### **Chodai (PDT Group)**

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81-3-6860-5974  
www.chodai.co.jp/en

### **JGC Holdings Corp.**

2-3-1, Minato Mirai, Nishi-ku  
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Masayuki Sato, Representative Director, Chairman  
and Chief Executive Officer  
81-45-682-1111  
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### **Kajima Corp.**

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Tokyo, 107-8388

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Japan

Hiromasa Amano, President, Representative Director

81-3-5544-1111

[www.kajima.co.jp/english/welcome.html](http://www.kajima.co.jp/english/welcome.html)

## **Kinden Corp.**

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Chiyoda, 102-8628

Japan

Mr. Takao Uesaka, President

81-3-5210-7103

[www.kinden.co.jp](http://www.kinden.co.jp)

## **Nippon Koei Group**

05/04/2023

Kojimachi Chiyoda-ku, 102-8539

Japan

Haruhiko KANAI, Director General/Senior Managing

Executive Officer

81 3 5276 3596

[www.n-koei.co.jp/english/index.html](http://www.n-koei.co.jp/english/index.html)

## **Obayashi Corp.**

2-15-2, Konan

Minato-ku, 108-8502

Japan

Kenji Hasuwa, Representative Director President and CEO

81-3-5769-1111

[www.obayashi.co.jp/en](http://www.obayashi.co.jp/en)

## **Oriental Consultants Global (OCHD)**

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Shibuya-ku, 151-0071

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Hidenori Nozaki, President

81-3-6311-6641

[www.oriconhd.jp/english](http://www.oriconhd.jp/english)

## **PADECO Co. Ltd.**

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## **Pacific Consultants Co. Ltd.**

3-22, Kanda-Nishikicho

Chiyoda-ku, 101-8462

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81-3-6777-3723

[www.pacific.co.jp](http://www.pacific.co.jp)

## **Penta-Ocean Construction Co. Ltd.**

2-8, Koraku 2-chome,

Bunkyo-ku, 112-8576

Japan

Takuzo Shimizu, President, Chief Executive Officer & Representative Director

81-3-3817-7181

[www.penta-ocean.co.jp](http://www.penta-ocean.co.jp)

## **Shimizu Corp.**

2-16-1, Kyobashi

Chuo-ku, 104-8370

Japan

Kazuyuki Inoue, President & Representative Director

03-3561-1111

[www.shimz.co.jp/en](http://www.shimz.co.jp/en)

## **Sumitomo Mitsui Construction Co. Ltd.**

2-1-6 TSUKUDA

CHUO-KU, 104-0051

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81-3-4582-3173

[www.smcon.co.jp/en](http://www.smcon.co.jp/en)

## **Taisei Corp.**

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Tokyo, 163-0606

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81-3-3348-1111

[www.taisei.co.jp/english](http://www.taisei.co.jp/english)

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## **Takenaka Corp.**

1-13, 4-choume, Honmachi, Chuo-ku  
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81-3 6810-5140  
www.takenaka.co.jp

## **Toyo Engineering Corp.**

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Narashino-shi, 275-0024  
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Eiji Hosoi, President & CEO  
81-47-451-1111  
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## **Yachiyo Engineering Co. Ltd.**

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Taito-ku, 111-8648  
Japan  
Tsutomu TAKAHASHI, President  
03-5822-2900  
www.yachiyo-eng.co.jp/e

## **Jordan**

### **Arabtech Jardaneh**

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Jordan  
Hamzeh Awwad, Chief Executive Officer  
962-6-585 7167  
www.aj-group.com

### **Dar Al Omran Planning Architecture Eng'g**

29 Ibrahim Al Khaldi St.  
Amman  
Jordan  
Anas C. Sinno, General Manager  
www.dao-badran.com

## **Engicon**

127 Ahmad Bin Hanbal St., Jabal Lweibdeh  
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Jordan  
Tarek Zuriekat, Chief Executive Officer (CEO)

962 6 460 2120  
www.engicon.com

## **Kazakhstan**

### **BI Group**

17M Syganak Street  
Astana, 010 000  
Kazakhstan  
Askhat Omarov, Holding CEO  
7 701 736 03 60  
company.bi.group/en

## **Kuwait**

### **Combined Group Contracting Co. (K.S.C)**

Kuwait  
Kuwait, 4819 Safat 13049  
Kuwait  
Sulaiman Al Marouf, Chief Executive Officer  
965 22254545  
www.cgc-kw.com

### **KEO International Consultants**

Flamingo Complex. Kuwait Free Trade Zone  
Kuwait, 13037  
Kuwait  
Donna Sultan, President and CEO  
965 24616000  
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### **Mohammed Abdulmohsin Al-Kharafi & Sons**

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Loay Jassim Al-Kharafi, Chief Executive Officer  
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## **Lebanon**

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Lebanon  
Aziz Bassoul, Director

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9611440400  
www.catgroup.net

## **Khatib & Alami**

14-6203  
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Lebanon  
Najib Khatib, CEO and Chairman  
961-1-843843  
www.khatibalami.com

## **SETS**

Hamra Main Street  
Beirut  
Lebanon  
Dr. Isam Kaysi, Co-Founder & SETS Group CEO –  
Senior Expert  
9611755411  
www.setsintl.net

## **Luxembourg**

### **Jan De Nul Group (Sofidra SA)**

34-36 Parc d'Activités Capellen  
Capellen, 8308  
Luxembourg  
ir. J.P.J. De Nul, Director Jan De Nul Group  
352 39 89 11  
www.jandenul.com

## **Malaysia**

### **HSS Engineers Berhad**

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Bandar Sri Permaisuri  
Kuala Lumpur, 56000  
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Tan Sri Kuna Sittampalam, Executive  
Chairman/Acting Group CEO  
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### **Ranhill Bersekutu Sdn Bhd**

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Malaysia  
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www.ranhillbersekutu.com.my

## **Malta**

### **ERG International Holdings Ltd.**

NO.11,L-UFFICCJI - GROUND FLOOR,MISRAH 28  
TA'FRAR 1883  
BIRKIRKARA  
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MURAT DEDEOĞLU, GROUP CEO  
356 2149 0644  
www.erg-int.co.uk

## **Netherlands**

### **Arcadis NV**

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www.arcadis.com

### **Bilfinger Tebodin**

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The Hague, 2593 BJ  
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31 88 996 70 00  
www.tebodin.bilfinger.com

### **Deerns**

Anna van Buerenplein 21F  
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Tjerk van der Meer, CEO  
31 88 3740000  
www.deerns.com

### **Fugro NV**

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Leidschendam, 2260AA  
Netherlands

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M.Heine, CEO  
31 70 31 11 112  
www.fugro.com

## **Royal Boskalis BV**

Rosmolenweg 20  
Papendrecht, 3356 LK  
Netherlands  
P.A.M. Berdowski  
www.Boskalis.com

## **Royal HaskoningDHV**

Laan 1914 no. 35  
Amersfoort, 3818EX  
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Marije Hulshof, Chief Executive Officer  
31883482000  
royalhaskoningdhv.com

## **New Zealand**

### **Beca Group Ltd.**

21 Pitt Street  
Auckland, 1010  
New Zealand  
Greg Lowe, Group Chief Executive  
64 9 300 9000  
www.beca.com

## **Portugal**

### **Mota-Engil**

Rua Rego do Lameiro, 38  
Porto, 4300-454  
Portugal  
Carlos Mota Santos, CEO  
351214158576  
www.mota-engil.com

## **Puerto Rico**

### **Álvarez-Díaz & Villalón | Arch. & Int. Design**

200 Convention Blvd., Ste 201  
San Juan, 907  
Puerto Rico  
RICARDO ÁLVAREZ-DÍAZ, COFOUNDER & CEO

787-754-1381  
www.alvarezdiazvillalon.com

## **Qatar**

### **Urbacon Trading and Contracting WLL**

303  
Doha, 201184  
Qatar  
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97444292787  
www.uccholding.com

## **Romania**

### **Synergy Construct SRL**

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floor, Sector 2  
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Savas Gunata, Managing partner  
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syncons.eu

## **Russia**

### **JSC Mosinzhproekt**

Khodynsky Blvd., 10  
Moscow, 125252  
Russia  
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mosinzhproekt.ru

### **Velesstroy LLC**

2-nd Tverskaya-Yamskaya, 10  
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Russia  
Kresimir Filipovic, Chief Executive Officer  
www.velesstroy.com

## **Saudi Arabia**

### **Zuhair Favez Partnership Consultants**

6409 King Abdulaziz Road Ar Rabea District  
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Dr. AbdulAziz M. Al Assaf, Chief Executive Officer

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00966-11-4048484

www.zfp.com

## Serbia

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Belgrade , 11070

Serbia

Dobroslav Bojović, CEO

38111 3101030

www.energoprojekt.rs

## Singapore

### Surbana Jurong Private Ltd.

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Singapore, 636741

Sean Chiao, Group CEO

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## South Africa

### PRDW Group

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## South Korea

### DL E&C Co. Ltd.

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Seoul, 3181

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82-2-2011-7114

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### Daewoo Engineering and Construction Co. Ltd.

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+82-2-3410-9000 / +82-2-3490-8500(International call)

heerim.com

### Hyundai Engineering & Construction Co. Ltd.

Hyundai Building, 75 Yulgok-ro, Jongno-gu

Seoul, 3058

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82 2 746 0506

en.hdec.kr

### Hyundai Engineering Co. Ltd.

75, Yulgok-Ro, Jongno-Gu

Seoul, 3058

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South Korea

Hyeon-Sung Hong, President / CEO

82 2 2134 1114

[www.hec.co.kr/en](http://www.hec.co.kr/en)

## **KEPCO Engineering & Construction Co. Inc.**

269 Hyeoksin-ro

Gimcheon-si, 39660

South Korea

Sung-arm, Kim, President & CEO

82-54-421-3114

[www.kepco-enc.com](http://www.kepco-enc.com)

## **Korea Engineering Consultants Corp.**

111-21, Deokpungdong-ro, Hanam-si, Gyeonggi-do,

Republic of Korea

Hanam City, 12927

South Korea

Chi Heon Kim, CEO & President

82-2-2049-2807

[www.kecc.co.kr](http://www.kecc.co.kr)

## **Kunhwa Engineering & Consulting Co. Ltd.**

321, Teheran-ro, Gangnam-gu

Seoul, 6151

South Korea

Hong, Kyung Pyo, Chairman

82269387500

[www.kunhwaeng.co.kr](http://www.kunhwaeng.co.kr)

## **Lotte Engineering & Construction Co. Ltd.**

29, 14-Gil, Jamwon-Ro, Seocho-Gu

Seoul, 6515

South Korea

PARK, HYUN CHUL, CEO / Vice Chairman

82-10-3599-5706

[www.lottecon.co.kr](http://www.lottecon.co.kr)

## **POSCO Engineering & Construction**

241, Incheon tower-daero, Yeosu-Gu

Incheon, 22009

South Korea

SUNG HEE HAN, President

82-32-748-2114

[www.poscoenc.com:446/en](http://www.poscoenc.com:446/en)

## **SK Ecoplant**

19, Yulgok-ro 2-gil, Jongno-gu, Seoul, Korea

Seoul, 3143

South Korea

Kyung Il Park, President & CEO

820237007114

[www.skecoplant.com/en](http://www.skecoplant.com/en)

## **Samoo Architects & Engineers**

1077, Cheon-daero

Seoul, ASI KR KS013

South Korea

Sohn, Chang-kyu, CEO

[www.samoo.com](http://www.samoo.com)

## **Samsung C&T Corp.**

Sangil-ro 6-gil 26, Tower B

Seoul, 5288

South Korea

Sechul Oh, President & CEO

[secc.co.kr](http://secc.co.kr)

## **Samsung Engineering Co. Ltd.**

SAMSUNG GEC, Sangil-ro 6gil 26, Gangdong-gu

Seoul, 5288

South Korea

Hong Namkoong, President / CEO

82 2 2053 3000

[www.samsungengineering.com](http://www.samsungengineering.com)

## **Soosung Engineering Co. Ltd.**

403, 510, Changi-daero, Uichang-gu

Chang-won-si, 51430

South Korea

Mi Rye PARK, Chief Executive Officer

82-2-2142-9190

[www.soosungeng.com](http://www.soosungeng.com)

## **Ssangyong Engineering & Construction Co. Ltd.**

299, Olympic-ro, Songpa-gu

Seoul, 5510

South Korea

KIM, KI MYUNG, CEO

82-2-3433-7114

[www.ssyenc.com](http://www.ssyenc.com)

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## **Yooshin Engineering Corp.**

8, Yeoksam-ro 5 gil, Gangnam-gu  
Seoul, 6252  
South Korea  
Park Seog Sung, President & CEO  
82262020930  
www.yooshin.com

## **Spain**

### **ACCIONA**

Gran Via de Hortaleza, 3  
Madrid, 28033  
Spain  
Carlos Planelles, Managing Director  
34 916632850  
www.accionacom

### **AYESA**

C. Marie Curie, 2, Spain  
Sevilla, 41092  
Spain  
José Luis Manzanares Abásolo, CEO  
34 954 46 70 46  
www.ayesa.com/en

### **COMSA Corporación**

Viriat, 47  
Barcelona, 8047  
Spain  
Guillermo Lorenzo Rodrigo, CEO of Infrastructure,  
Engineering and Services  
34933662100  
www.comsa.com

### **Empresarios Agrupados Internacional SA**

c/Magallanes, 3  
Madrid, 28015  
Spain  
Javier Perea Sáenz de Buruaga, Managing Director  
and CEO  
34913098000  
www.empresariosagrupados.es

### **FCC SA**

Avda. Camino de Santiago, 40

Madrid, 28050

Spain  
Pablo Colio Abril, Chief Executive Officer  
34 91 757 32 47  
www.fcc.es

### **Ferrovial**

Príncipe de Vergara 135  
Madrid, 28002  
Spain  
Ernesto López Mozo, Mr  
www.ferrovial.com/es-es

### **Grupo ACS/Hochtief**

Avenida de Pio XII 102  
Madrid, 28036  
Spain  
Juan Santamaria, CEO  
34 91 343 9446  
www.grupoacs.com

### **Grupo Empresarial San Jose SA**

Rosalía de Castro, 44  
Pontevedra, 36001  
Spain  
JACINTO REY GONZALEZ, PRESIDENT  
34 91 806 54 00  
www.grupo-sanjose.com

### **IDOM**

Zarandoa 23  
Bilbao, 48015  
Spain  
Ignacio Rey, CEO  
944797600  
www.idom.com

### **Ingenieria Y Economia Del Transporte SA (INECO)**

Paseo de la Habana, 138  
Madrid, 28036  
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0034 91 4521200  
www.ineco.com

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## **OHLA**

PASEO DE LA CASTELLANA 259 D  
MADRID, 28046

Spain

Jose Antonio Fernandez Gallar, CEO

34 676276956

ohla-group.com

## **Sacyr**

CONDESA DE VENADITO 7

MADRID, 28027

Spain

MANUEL MANRIQUE, CHAIRMAN AND CEO

34915455000

www.sacyr.com

## **Sener Grupo de Ingeniería SA**

Avda de Zugazarte, 56

Getxo, 48930

Spain

Jorge Sendagorta Cudós, Chief Executive Officer

34 944 817 501

www.group.sener

## **Tecnica y Proyectos SA (TYPSA)**

GOMERA N° 9

SAN SEBASTIAN DE LOS REYES , 28703

Spain

PABLO BUENO TOMAS, PRESIDENT & CEO

3491727300

www.typsa.com

## **Vepica Grupo Internacional SLU**

Calle Velasquez 94, 1era planta

Madrid, 28006

Spain

Miguel Bocco, Chief Executive Officer

58212822800

www.vepica.com

## **Sweden**

### **AFRY**

Frösundaleden 2A

Solna, 169 75

Sweden

Jonas Gustavsson, President and CEO

www.afry.com

### **Skanska AB**

Warfvinges väg 25

Stockholm, SE-112 74

Sweden

Anders Danielsson, CEO

46766074816

www.group.skanska.com

### **Sweco AB**

Gjörwellsgatan 22

Stockholm, 100 26

Sweden

Åsa Bergman, President & CEO

46 8 695 60 00

www.swecogroup.com

## **Switzerland**

### **Lombardi Group**

Via del Tiglio 2

Giubiasco-Bellinzona, 6512

Switzerland

Mr. Michele Fumagalli, MSc, EMBA

41917353100

www.lombardi.group

### **Pini Group**

Piazza Stazione 15

Grono, 6537

Switzerland

Andrea Galli, Group CEO

41 91 820 35 00

www.pini.group

## **Taiwan**

### **CTCI Corp.**

89, Sec. 6, Zhongshan N. Rd.,

Taipei , 111046

Taiwan

Ming-Shyan Lee, President

(886)2-2833-9999

www.ctci.com

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## Tunisia

### STUDI International

28, Rue de l'île de Zembretta  
Les Jardins du Lac, Lac II, 1053  
Tunisia  
Mohamed Ben Youssef, Chief Executive Officer  
21670021000  
www.studi.com.tn

## Turkey

### Alarko Contracting Group

Dikilitas Mah Emirhan Cad Barbaros Plaza No 113/C  
Kat:3 Besiktas  
Istanbul, 34349  
Turkey  
Ümit Nuri Yıldız, Chief Executive Officer  
902129535700  
www.alsimalarko.com.tr

### Ant Yapi Industry & Trade Inc.

Akcakoca St., No:11  
Istanbul, 34768  
Turkey  
KADIR TOKMAN, Chairman/Co-founder  
(90) (216) 630 67 67  
www.antiyapi.com.tr

### Aslan Yapi ve Ticaret AS

Cankaya District, Cemal Nadir Street, No. 18  
ANKARA, 6690  
Turkey  
Mustafa Cihad ARSLAN, GENERAL MANAGER  
213 560 00 47 02  
www.aslan-yapi.com.tr

### Bayburt Group

Anittepe Mah. Isik Sok. No. 20 Cankaya  
Ankara, 6570  
Turkey  
Abdurrahman Senturk, Head of Board, CEO  
0090 312 229 08 08  
www.bayburtgroup.com

### Calik Enerji Sanayi ve Ticaret AS

Buyukdere Cad No 163 Zincirlikuyu Sisli  
Istanbul, 34394  
Turkey  
Onur Yucekak, General Manager  
902123065102  
www.calikenerji.com

### Cengiz Construction Industry & Trade Co. Inc.

Altunizade Mah. Kısıklı Cad. No:37  
Istanbul, 34662  
Turkey  
MEHMET CENGİZ, CEO-CHAIRMAN  
902165545300  
www.cengiz.com.tr

### Dekinsan Grup Insaat AS

GOLGELI SOKAK NO: 21 G.O.P. CANKAYA  
ANKARA, 6700  
Turkey  
FUAT TASTAN, GENERAL DIRECTOR  
90 312 230 38 52  
www.dekinsan.com.tr

### Dogus Insaat Ve Ticaret AS

Buyukdere Caddesi No:249  
Istanbul, 34398  
Turkey  
Tolga AKKAŞ, CEO  
902128000500  
www.dogusinsaat.com.tr

### Dolsar Engineering

Mustafa Kemal Mah., 2118. Cad. No:4, Maidaan Is  
Merkezi, C Blok Kat 8, Cankaya  
Ankara, 6530  
Turkey  
H. Irfan AKER, Chairman  
90 312 412 8000  
www.dolsar.com.tr

### Dorce Prefabricated Building and Construction Industry Trade Inc.

A. Öveçler Mah. 1325. Sk. No:6, Çankaya  
Ankara, 6460

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Turkey

Suheyyla Cebi Karahan, CEO

90 312 472 82 10 (pbx)

www.dorce.com

## **Enka Insaat ve Sanayi AS**

Balmumcu Mahallesi, Zincirlikuyu Yolu No:10

Istanbul, 34349

Turkey

Mehmet Tara, President and Chairman of the

Executive Committee

0090-212-376-1000

www.enka.com

## **Eser Contracting**

695. Cad. No:1 Hilal Mah. Cankaya

Ankara, 6550

Turkey

Ilhan Adiloglu, President

www.eser.com

## **Esta Insaat Sanayi Lojistik ve Dis Ticaret AS**

Acibadem Mahallesi Cecen Sokak No:27 Kapi No:1

Istanbul, 34660

Turkey

MUSTAFA TOPRAK, CEO

902166810037

www.estacons.com

## **Euro Consult for Engineering Consultancy**

Maslak Mah. Ataturk Oto Sanayi 55 Sok No:2 Maslak

45 A Blok D

Istanbul, 34398

Turkey

Tarik Kabo, General Manager

90(212)2444625

www.euroconsult.com

## **Feka Insaat Sanayi ve Ticaret AS**

Kızılüzüm Cad. No:15 -Kemalpaşa

İzmir, 35730

Turkey

Akın Erden, General Manager

90 232 877 10 55

www.feka.com

## **GAP INSAAT YATIRIM VE DIS TICARET AS**

Büyükdere Cad. No:163 Esentepe - Zincirlikuyu

Istanbul, 34394

Turkey

LEVENT KAFKASLI, GENERAL MANAGER

902123065000

www.gapinsaat.com

## **Gulermak**

Konya Yolu 23.Km No:111, Gölbaşı

Ankara, 6830

Turkey

Kemal Güteryüz, Chairman

903124841489

www.gulermak.com.tr

## **ILK Construction**

Yenişehir Mahallesi Arif Sokak No.2 Ataşehir

İstanbul, 34779

Turkey

Selami Erdoğan, CEO

902164555544

www.ilkconstruction.com

## **Ic Ictas Insaat Sanayi Ve Ticaret AS**

Merkez Mah. Silahsor Cad. Hilton Otel Apt. No:42/1

Sisli/ISTANBUL

ISTANBUL, 34380

Turkey

FIRAT CECEN, Board Chairman

90 212 338 7100

www.ictas.com.tr

## **Iris Insaat Turizm Sanayi Ve Ticaret AS**

Halkali M Merkez Mah. Basın Ekspres Cad. Capital

Tower Sitesi N: 9 Ic Kapi N: 65

ISTANBUL, 34303

Turkey

Ibrahim Hakki Sisman, Architect

974 4008 6888

www.irisas.com.tr

## **KUZU Group**

Yesilkoy Cad. No: 19 Florya

Istanbul

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Turkey

OZEN KUZU, MR

902126632666

www.kuzugrup.com

## **Kolin Insaat Turizm Sanayi ve Ticaret AS**

Horasan Sokak No:14

Ankara, 6680

Turkey

Naci Koloğlu, Chairman of the Board

903124471700

www.kolin.com.tr

## **LIMAK INSAAT SANAYI VE TICARET AS**

HAFTA SOKAK NO:9 GOP CANKAYA

ANKARA, 6700

Turkey

FEYİZ GENÇ, BOARD MEMBER

903124468800

www.limak.com.tr

## **MAKYOL İnşaat Sanayi Turizm ve Ticaret AS**

Tepecik Caddesi Melodi Sokak ITU Bloklari E Blok

Etiler

Istanbul, 34337

Turkey

Adnan Çebi, Chairperson and CEO

902123514151

makyol.com.tr

## **MBD Insaat Sanayi Ve Ticaret AS**

Asagi Ovecler Mah. 1314. Cad. No:20/1

Ankara, 6460

Turkey

Remzi Demircan, Architect

90 312 472 78 30

www.mbdinsaasat.com

## **Mapa Insaat ve Ticaret AS**

Ugur Mumcu Cad. No: 88 GOP

Ankara, 6700

Turkey

Mehmet Nazif Günel, Chairman

903124363000

mapa.group

## **Metag Group**

Konutkent Mah. 3028. Cad. No: 6/29

Ankara

Turkey

Tayfun Kayas, President

90 312 472 77 31

www.metag.com.tr

## **NKY Architects and Engineers**

A. Ovecler Mah Lizbon Cad No:49

Ankara, 6460

Turkey

Birhan Emre Yazıcı, CEO

903122203095

www.nky.com.tr

## **Nata Insaat Turz. Tasimacilik Tic. Ve San. AS**

İNÖNÜ MAHALLESİ FATİH SULTAN MEHMET

BULVARI NO: 412/A-50

ANKARA, 6370

Turkey

NAMIK TANIK, CHAIRMAN OF THE BOARD OF DIRECTORS

903122691232

www.nataholding.com

## **Onur Taahhut Tasimacilik Insaat Tic. Ve Sanayi AS**

MUSTAFA KEMAL MAH. 2118 CADDE B BLOK NO:

4B/118 ÇANKAYA

ANKARA, 6510

Turkey

İHSAN ÇETİNCEVİZ, VICE PRESIDENT

90 312 491 96 96, +90 312 586 93 00

www.onurgroup.com

## **POLAT YOL YAPI SAN. VE TIC. AS**

HASANPASA MAH. UZUNCAYIR YOLU CAD. NO:6

KADIKÖY

İSTANBUL, 34722

Turkey

CELALEDDİN POLAT, VICE PRESIDENT OF THE BOARD / GENERAL MANAGER

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902163250686  
www.polatyol.com

## **PROYAPI Engineering and Consultancy Inc.**

1408. Cadde No:2 Balgat Mahallesi  
Ankara, 6520  
Turkey  
Murat Koru, Chairman  
90 312 287 46 65  
www.proyapi.com

## **Renaissance Construction**

Çankaya Mahallesi Atatürk Bulvarı No:144-146,  
Çankaya  
Ankara, 6640  
Turkey  
Atilla Kemal Sağlam, MR/Global CEO  
903124413141  
www.ronesans.com

## **SMK Group**

Çetin Emeç Bulvarı 1314. Cadde. No:19  
Ankara, 06460  
Turkey  
Hakan Isik, General Manager  
90 312 286 1 765  
www.smk.com.tr

## **STFA Construction Group**

STFA İş Merkezi, Yeşil Vadi Sok. No.3  
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Turkey  
Adnan Nas, Chief Executive Officer  
902165789650  
www.stfa.com

## **Sembol Uluslararası Yatırım Tarım Peyzaj İnşaat**

HARBIYE MAHALLESİ, DARULBEDAI CAD. İSTANBUL  
KONGRE MERKEZİ NO:3  
İSTANBUL, 34367  
Turkey  
ALI TAMINCE, Chairman of Executive Board  
90 212 375 19 00  
www.sembolinsaat.com.tr

## **Summa Turizm Yatırımcılığı AS**

27 ARALIK SOK. NO:3  
CANKAYA, 6690  
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SELİM BORA, PRESIDENT  
903124413747  
www.summa.com.tr

## **TAV CONSTRUCTION**

VADİSTANBUL BULVAR, AYAZAGA DISTR,  
AZERBAIJAN RD. BLOCK-1B, LEVEL 19,  
NO:109B/43  
İSTANBUL, 34396  
Turkey  
M. SANI SENER, CHAIRMAN  
90 212 463 30 00  
www.tavconstruction.com

## **Tekfen Construction and Installation Co. Inc.**

Kültür Mah. Budak Sok. Tekfen Sitesi, C Blok  
İstanbul  
Turkey  
Mr. Hakan Göral, CEO  
902123593500  
www.tekfenconstruction.com

## **Tekfen Muhendislik AS**

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www.tekfenmuhendislik.com

## **Temelsu International Engineering Services Inc.**

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90 312 442 47 20  
www.temelsu.com.tr

## **Ustay Yapı Taahhüt Ve Ticaret AS**

AHI EVRAN CD.NO21 POLARIS PLAZA K.11 MASLAK

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SARIYER  
ISTANBUL , 34485  
Turkey

MURAT USTAY, GENERAL MANAGER  
902123460112  
www.ustay.com

## **Yapi Merkezi Insaat Ve Sanayi AS**

Hacı Reşit Paşa Sokak, No: 4A, Üsküdar  
İstanbul, 34676  
Turkey  
Mustafa Başar ARIOĞLU, Chairman of the Board of  
Directors  
90 216 321 90 00  
www.yapimerkezi.com.tr

## **Yenigun Insaat Sanayi ve Ticaret AS**

Ankara, 06610  
Turkey  
Fikret Yenigün, CEO  
www.yenigun.com.tr

## **Yuksel Insaat Co. Inc.**

SOGUTOZU CAD NO : 14/ A-B BESTEPELER  
YENİMAHALLE  
ANKARA, 6560  
Turkey  
EMİN SAZAK, CEO  
903122842545  
www.yuksel.net

## **Yuksel Proje AS**

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Celal AKIN, Chairman  
903124957000  
www.yukselproje.com.tr

## **ZAFER TAAHHUT INSAAT VE TICARET AS**

100.YIL MAHALLESİ HATIR SOKAK NO:20 CANKAYA  
ANKARA, 6700  
Turkey  
M. NECATI YAGCI, PRESIDENT

903124470070  
www.zafer.com.tr

## **U.A.E.**

### **Architecture & Planning Group**

502 Al Masaaod Tower Hamdan St  
Abu Dhabi, 2833  
U.A.E.  
Engr. Yasser Sharawy, CEO  
02-6333022  
www.apgarch.com

### **Dewan Architects + Engineers**

Dubai Design District  
Dubai, 60990  
U.A.E.  
Ammar Al Assam, CEO  
97142402010  
www.dewan-architects.com

### **National Marine Dredging Company (NMDc)**

Mussafah, Industrial Area  
Abu Dhabi, 2058  
U.A.E.  
Yasser Nassr Zaghoul, Group Chief Executive Officer  
9712 513 0000  
www.nmdc.com

### **Orascom Construction PLC**

Office 301-303, Gate Village 1, Dubai International  
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Dubai, 507031  
U.A.E.  
Osama Bishai, Chief Executive Officer  
971 4 319 0900  
www.orascom.com

### **Shaker Group**

P.O. Box 112888  
P.O. Box 112888, 112888  
U.A.E.  
Ismail Shaker, CEO  
1019441490  
[www.shakergroup.com](http://www.shakergroup.com)

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## **Sidara**

Index Tower, Dubai International Financial Center  
Dubai, 506855, Dubai, UAE  
U.A.E.  
Talal K Shair, Chairman and CEO  
97143060000  
www.sidaracollaborative.com

## **U.K.**

### **Arup Group Ltd.**

8 Fitzroy Street  
London, England W1T 4BJ  
U.K.  
Alan Belfield, Chairman  
020 7636 1531  
www.arup.com

### **Mott MacDonald**

Mott MacDonald House, 8-10 Sydenham Road  
Croydon, England CR0 2EE  
U.K.  
James Harris, Executive Chair  
44 (0)20 8774 2000  
www.mottmac.com

### **Petrofac Ltd.**

44 Esplanade, St Helier  
St. Helier, Jersey JE49WG  
U.K.  
Tareq Kawash, Chief Executive Officer  
44 20 7811 4900  
www.petrofac.com

## **Wood**

Sir Ian Wood House, Hareness Rd  
Aberdeen, Scotland AB12 3LE  
U.K.  
Ken Gilmartin, Chief Executive Officer  
44 1224 373 880  
www.woodplc.com

## **U.S.A.**

### **AECOM**

13355 Noel Rd #400

Dallas, Texas 75240

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Troy Rudd, CEO  
(972) 788-1000  
aecom.com

### **APTIM**

1200 Brickyard Lane, Suite 202  
Baton Rouge, La. 70802  
U.S.A.  
Mark Fallon, Chairman & CEO  
(833) 862-7846  
www.APTIM.com

### **ARCO Construction Cos.**

900 N Rock Hill Rd  
Saint Louis, Mo. 63119  
U.S.A.  
Jeff Cook, Cofounder  
314-963-0715  
arcoconstruction.com

### **Adolfson & Peterson Construction**

5500 Wayzata Blvd, Ste 600  
Minneapolis, Minn. 55416  
U.S.A.  
Jeffrey Hansen, CEO  
952-544-1961  
www.a-p.com

### **Alberici-Flintco**

8800 Page Avenue  
St. Louis, Mo. 63114  
U.S.A.  
Peter Kozicz, CEO  
3147332000  
www.alberici.com

### **Allan Myers**

1805 Berks Road  
Worcester, Pa. 19490  
U.S.A.  
A. Ross Myers, CEO  
610-584-6020  
www.allanmyers.com

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## **Alston Construction**

8775 Folsom Blvd.  
Sacramento, Calif. 95826  
U.S.A.  
Paul Little, President/CEO  
404-921-2020  
alstonco.com

## **Ames Construction Inc.**

2500 County Road 42 West  
Burnsville, Minn. 55337  
U.S.A.  
Jerry Ouimet, President & CEO  
952-435-7106  
www.amesconstruction.com

## **Andersen Construction**

6712 N. Cutter Circle  
Portland, Ore. 97217  
U.S.A.  
Joel Andersen, CEO  
503.283.6712  
www.andersen-const.com

## **Arquitectonica**

2900 Oak Ave.  
Miami, Fla. 33133  
U.S.A.  
Timothy S. Reedy, CEO  
305-372-1812  
www.arquitectonica.com

## **Atwell LLC**

Two Towne Square, Suite 700  
Southfield, Mich. 48076  
U.S.A.  
Brian R. Wenzel, P.E., Chief Executive Officer  
248-447-2000  
www.atwell-group.com

## **Audubon**

10205 Westheimer Rd  
Houston, Texas 77042  
U.S.A.  
David Robison, CEO

281.669.0590  
www.auduboncompanies.com

## **Austin Industries**

3535 Travis Street, Suite 300  
Dallas, Texas 75204  
U.S.A.  
David B. Walls, President & CEO  
214-443-5500  
www.austin-ind.com

## **Ayers Saint Gross**

1040 Hull Street, Suite 100  
Baltimore, Md. 21230  
U.S.A.  
Luanne Greene, President  
410.347.8500  
www.ayerssaintgross.com

## **BL Harbert International**

820 Shades Creek Parkway, Suite 3000  
Birmingham, Ala. 35209  
U.S.A.  
Billy Harbert, Chairman and CEO  
205-802-2800  
www.blharbert.com

## **BNBuilders**

2601 4th Ave Suite 350  
Seattle, Wash. 98121  
U.S.A.  
Brad Bastian, CEO/President  
206-382-3443  
www.bnbuilders.com

## **Balfour Beatty US**

3100 McKinnon St, 6th Floor  
Dallas, Texas 75201  
U.S.A.  
Eric Stenman, President and CEO (effective 4/3/23)  
2144511000  
balfourbeattyus.com

## **Barnard Construction Co. Inc.**

701 Gold Ave

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Bozeman, Mont. 59715-2453

U.S.A.

Jeff Higgins, CEO

406-586-1995

www.barnard-inc.com

## **Barr Engineering Co.**

4300 MarketPointe Dr Suite 200

Minneapolis, Minn. 55435

U.S.A.

Ward Swanson, Chief Executive Officer

(952) 832-2600

Barr.com

## **Barton Malow Holdings LLC**

26500 American Drive

Southfield, Mich. 48034

U.S.A.

Ryan Maibach, President/CEO

(248) 436-5000

bartonmalow.com

## **Beam Longest & Neff**

8320 Craig Street

Indianapolis, Ind. 46250

U.S.A.

James B. Longest, President

3178495832

www.b-l-n.com

## **Bechtel**

12011 Sunset Hills Road, Suite 110

Reston, Va. 20190

U.S.A.

B. Bechtel, CEO

571-392-6300

www.bechtel.com

## **Big-D Construction**

404 W 400 S

Salt Lake City, Utah 84101

U.S.A.

Cory Moore, CEO

801-415-6000

www.big-d.com

## **Black & Veatch**

11401 Lamar Avenue

Overland Park, Kan. 66211

U.S.A.

Mario Azar, Chairman and CEO

913-458-2000

www.bv.com

## **Blue Ridge Power**

105 Fairview Road, Suite

Asheville, N.C. 28803

U.S.A.

Chris Dunbar, CEO

833-436-1249

blueridgepower.com

## **Brasfield & Gorrie LLC**

3021 7th Avenue S

Birmingham, Ala. 35233

U.S.A.

James M. Gorrie, CEO

205.328.4000

brasfieldgorrie.com

## **Brinkmann Constructors**

16650 Chesterfield Grove Rd

Chesterfield, Mo. 63005

U.S.A.

Brian Satterthwaite, CEO

6365379700

brinkmannconstructors.com

## **Brown and Caldwell**

201 N. Civic Drive

Walnut Creek, Calif. 94596

U.S.A.

Rich D'Amato, Chairman and CEO

303-239-5420

www.browncaldwell.com

## **Burns & McDonnell**

9400 Ward Parkway

Kansas City, Mo. 64114

U.S.A.

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Ray Kowalik, Chairman and CEO  
www.burnsmcd.com

## **CBRE**

2100 McKinney Avenue, Suite 700  
Dallas, Texas 75201  
U.S.A.  
Bob Sulentic, President & CEO  
2149796100  
www.cbre.com

## **CDM Smith**

75 State Street  
Boston, Mass. 2109  
U.S.A.  
Tim B. Wall, Chairman of the Board and Chief  
Executive Officer  
617-452-6000  
www.cdmsmith.com

## **CHA Consulting Inc. (CHA)**

575 Broadway, Suite 301  
Albany, N.Y. 12207  
U.S.A.  
James Stephenson, CEO, CHA Holdings, Inc. &  
President, CHA Consulting, Inc.  
5184534500  
www.chacompanies.com

## **CONSOR**

155 N Upper Wacker Dr Suite 4150  
Chicago, Ill. 60606  
U.S.A.  
Sandeep Patil, Chief Executive Officer  
888-451-6822  
consoreng.com

## **CORE Construction Group**

6320 Research Rd  
Frisco, Texas 75033  
U.S.A.  
Jim Jacobs, CEO  
972-668-9340  
coreconstruction.com

## **CRB**

1251 N.W. Briarcliff Parkway, Suite 500  
Kansas City, Mo. 64116  
U.S.A.  
Ryan Schroeder, President & CEO  
(816) 880-9800  
www.crbgroup.com

## **Caddell Construction**

445 Dexter Ave Suite 11000  
Montgomery, Ala. 36104  
U.S.A.  
Eddie Stewart, Chairman/Chief Executive Officer  
334-272-7723  
caddell.com

## **CannonDesign**

300 E 42nd St 2nd Floor  
New York City, N.Y. 10017  
U.S.A.  
Brad Lukanic, CEO  
(212) 972-9800  
www.CannonDesign.com

## **Carollo Engineers**

2795 Mitchell Drive  
Walnut Creek, Calif. 94598  
U.S.A.  
B. Narayanan, CEO/President  
(800) 523-5826  
www.carollo.com

## **Choate Construction Co.**

8200 Roberts Drive, Suite 600  
Atlanta, Ga. 30350  
U.S.A.  
Matt Brewer, President & CEO  
678-892-1200  
www.choateco.com

## **Clark Group**

7900 Westpark Drive  
McLean, Va. 22102  
U.S.A.  
Robert D. Moser, Jr., Chief Executive Officer

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3012728100

[www.clarkconstruction.com](http://www.clarkconstruction.com)

## **Clayco**

35 East Wacker Drive

Chicago, Ill. 60601

U.S.A.

Russ Burns, CEO

3126580747

[www.claycorp.com](http://www.claycorp.com)

## **Clune Construction**

10 S Riverside Plaza, Suite 2200

Chicago, Ill. 60606

U.S.A.

R. David Hall, Chief Executive Officer

312.726.6103

[www.clunegc.com](http://www.clunegc.com)

## **Colliers Engineering & Design**

101 Crawfords Corner Road, Suite 3400

Holmdel, N.J. 7733

U.S.A.

Kevin Haney, President & CEO

877 627 3772

[www.colliersengineering.com](http://www.colliersengineering.com)

## **Commercial Contracting Corp.**

4260 N. Atlantic Blvd.

Auburn Hills, Mich. 48326

U.S.A.

Stephen Fragnoli, President & CEO

248-209-0500

[www.cccnetwork.com](http://www.cccnetwork.com)

## **Consigli Building Group Inc.**

72 Sumner Street

Milford, Mass. 1757

U.S.A.

Anthony Consigli, Chief Executive Officer

[www.consigli.com](http://www.consigli.com)

## **Construction Partners**

200 Grove Park Lane, Suite 630

Dothan, Ala. 36305

U.S.A.

Fred J. (Jule) Smith, III, President and Chief Executive Officer

3343051275

[www.constructionpartners.net](http://www.constructionpartners.net)

## **Corgan**

401 North Houston Street

Dallas, Texas 75202

U.S.A.

Scott Ruch, Chief Executive Officer

2147482000

[corgan.com](http://corgan.com)

## **Crossland Construction Co. Inc.**

833 S East Avenue

Columbus, Kan. 66725

U.S.A.

Ivan Crossland, Jr., CEO

620-429-1414

[www.crossland.com](http://www.crossland.com)

## **DLR Group**

51 University Street, Suite 600

Seattle, Wash. 98101

U.S.A.

Steven McKay, RIBA, LEED AP, CEO, Managing Principal

206.461.6000

[www.dlrgroup.com](http://www.dlrgroup.com)

## **DLZ Corp.**

6121 Huntley Road

Columbus, Ohio 43229

U.S.A.

Vikram (Raj) V. Rajadhyaksha, P.E., Chairman & CEO

614-888-0040

[www.dlz.com](http://www.dlz.com)

## **DPR Construction**

1450 Veterans Blvd

Redwood City, Calif. 94063

U.S.A.

George Pfeffer, Chief Executive Officer

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650-474-1450  
www.dpr.com

## **Day & Zimmermann**

1500 Spring Garden St  
Philadelphia, Pa. 19130  
U.S.A.

Harold L. Yoh, III, Chairman & CEO  
(215) 299-8000  
www.dayzim.com

## **DeSimone Consulting Engineers**

140 Broadway, 25th Fl  
New York, N.Y. 10005  
U.S.A.

Stephen V. DeSimone, Chairman/CEO  
212.532.2211  
www.de-simone.com

## **Dennis Group**

1537 Main Street  
Springfield, Mass. 1103  
U.S.A.

Tom Dennis, President & CEO  
413.787.1785  
www.dennisgroup.com

## **Devcon Construction Inc.**

690 Gibraltar Drive  
Milpitas, Calif. 95035  
U.S.A.

Gary Filizetti, President  
4089428200  
www.devcon-const.com

## **Dewberry**

8401 Arlington Boulevard  
Fairfax, Va. 22031  
U.S.A.

Donald E. Stone, Jr., Chief Executive Officer  
703.849.0100  
www.dewberry.com

## **E.E. Reed Construction LP**

333 Commerce Green Blvd.

Sugar Land, Texas 77478  
U.S.A.

E.E. "Gene" Reed, CEO  
281-933-4000  
www.eereed.com

## **ECC**

1240 Bayshore Hwy.  
Burlingame, Calif. 94010  
U.S.A.

Manjiv S. Vohra, PE, DBIA, President & CEO  
650-347-1555  
www.ecc.net

## **ENERCON**

500 Townpark Lane  
Kennesaw, Ga. 30144  
U.S.A.

Robert Bryan, President  
770-919-1930  
www.enercon.com

## **ENTRUST Solutions Group LLC**

28100 Torch Parkway, Suite 400  
Warrenville, Ill. 60555  
U.S.A.

Adam Biggam, CEO  
630-353-4000  
www.entrustsol.com

## **EXP**

205 N Michigan Ave, Suite 3600  
Chicago, Ill. 60601  
U.S.A.

Ivan Dvorak, Chairman and CEO  
312.616.0000  
www.exp.com

## **Engineering Consulting Services (ECS)**

14030 Thunderbolt Place, Suite 500  
Chantilly, Va. 20151  
U.S.A.

Antony J. Fiorillo, PE, President  
571-299-6000  
www.ecslimited.com

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## **Ennead Architects LLC**

1 World Trade Center  
New York, N.Y. 10007  
U.S.A.

V. Guy Maxwell, Kevin McClurkan, Molly McGowan,  
Richard Olcott, Tomas Rossant, Todd Schliemann,  
Peter Schubert, Don Weinreich, Thomas Wong,  
Partner  
(212) 807-7171  
www.ennead.com

## **Evans General Contractors**

3050 Northwinds Parkway, Suite 200  
Alpharetta, Ga. 30009  
U.S.A.

RT Evans, President & CEO  
678-713-7616  
evansgeneralcontractors.com

## **F.A. Wilhelm Construction**

3914 Prospect Street  
Indianapolis, Ind. 46203  
U.S.A.

Philip Kenney, President  
317-359-5411  
www.fawilhelm.com

## **FCL Builders LLC**

1150 Spring Lake Drive  
Itasca, Ill. 60143  
U.S.A.

Christopher P. Linn, President & CEO  
(630) 773-0050  
www.fclbuilders.com

## **Flad Architects**

644 Science Drive  
Madison, Wis. 53711  
U.S.A.

Jeffrey C. Zutz, AIA, LEED AP, CEO/President  
608-238-2661  
flad.com

## **Fluor**

6700 Las Colinas Blvd.

Irving, Texas 75039  
U.S.A.

David E. Constable, Chief Executive Officer  
469-398-7000  
www.fluor.com

## **Fortis Construction Inc.**

1705 SW Taylor St., Suite 200  
Portland, Ore. 97205  
U.S.A.

Jim Kilpatrick, CEO  
503-459-4477  
www.fortisconstruction.com

## **GEI Consultants Inc.**

400 Unicorn Park Drive  
Woburn, Mass. 1801  
U.S.A.

Ronald P. Palmieri, P.E., President and Chief  
Executive Officer  
781-721-4000  
www.geiconsultants.com

## **Gannett Fleming**

207 Senate Avenue  
Camp Hill, Pa. 17011  
U.S.A.

Robert M. Scaer, PE, Chief Executive Officer  
717.763.7211  
www.gannettfleming.com

## **Garney Holding Co.**

1700 Swift Street  
North Kansas city, Mo. 64116  
U.S.A.

Michael H. Heitmann, Chief Executive Officer  
(816) 741-4600  
www.garney.com

## **Gensler**

220 Montgomery St., Suite 200  
San Francisco, Calif. 94104  
U.S.A.

Andy Cohen & Diane Hoskins, Co-CEOs

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415.433.3700  
www.gensler.com

## **Geosyntec Consultants**

900 Broken Sound Parkway NW, Suite 200  
Boca Raton, Fla. 33487  
U.S.A.

Peter Zeeb, President and CEO  
561-995-0900  
www.geosyntec.com

## **Ghafari Associates LLC**

17101 Michigan Avenue  
Dearborn, Mich. 48126  
U.S.A.

Kouhaila Hammer, President + CEO  
313.441.3000  
www.ghafari.com

## **Gilbane Building Co.**

7 Jackson Walkway  
Providence, R.I. 2903  
U.S.A.

Thomas M. Laird, Jr., President and CEO  
(401) 456-5800  
www.gilbaneco.com

## **Goettsch Partners**

224 South Michigan Avenue, Floor 17  
Chicago, Ill. 60604  
U.S.A.

James Zheng, CEO and President  
312.356.0600  
www.gpchicago.com

## **Granite Construction Inc.**

585 West Beach Street  
Watsonville, Calif. 95076  
U.S.A.

KYLE LARKIN, President and Chief Executive Officer  
831.724.1011  
www.graniteconstruction.com

## **Gray Construction**

10 Quality Street

Lexington, Ky. 40507  
U.S.A.

Stephen Gray, Chief Executive Officer & President,  
Gray, Inc.  
859.281.5000  
www.gray.com

## **Greenman-Pedersen Inc. (GPI)**

325 West Main Street  
Babylon, N.Y. 11702  
U.S.A.

Patrick Kenneally, President/CEO  
631-587-5060  
www.gpinet.com

## **Gresham Smith**

222 Second Avenue South, Suite 1400  
Nashville, Tenn. 37201  
U.S.A.

Rodney Chester, Chief Executive Officer  
615-770-8100  
www.greshamsmith.com

## **HDR**

1917 S 67th Street  
Omaha, Neb. 68106  
U.S.A.

Eric L. Keen, P.E., Chief Executive Officer  
402-399-1000  
www.hdrinc.com

## **HITT Contracting Inc.**

2900 Fairview Park Drive  
Falls Church, Va. 22042  
U.S.A.

Kim Roy, CEO  
703.846.9000  
hitt.com

## **HKS**

350 North Saint Paul, Suite 100  
Dallas, Texas 75201  
U.S.A.

Dan Noble, Chairman & CEO

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214-969-3320  
www.hksinc.com

## **HNTB Cos.**

715 Kirk Drive  
Kansas City, Mo. 64105  
U.S.A.  
Rob Slimp, Chairman and CEO  
816-472-1201  
www.hntb.com

## **HOK**

5 Bryant Pk 6th floor  
New York, N.Y. 10018  
U.S.A.  
Susan Williams, Co-CEO  
212-741-1200  
www.hok.com

## **Halff**

1201 North Bowser Road  
Richardson, Texas 75081  
U.S.A.  
Mark Edwards, President/CEO  
214-346-6200  
www.halff.com

## **Hargrove Engineers & Constructors**

20 S Royal St  
Mobile, Ala. 36602  
U.S.A.  
Ralph A. Hargrove, President & CEO  
(251) 476-0605  
hargrove-epc.com

## **Hart Howerton**

10 East 40th Street, 39th Floor  
New York, N.Y. 10016  
U.S.A.  
Jim Tinson, AIA, Chief Executive Officer  
212.683.5631  
www.harthowerton.com

## **Harvey | Harvey-Cleary**

3663 Briarpark Drive, Suite 101

Houston, Texas 77042  
U.S.A.  
Kelly Hall, Chief Executive Officer  
7137838710  
harveycleary.com

## **Haskell**

111 Riverside Ave.  
Jacksonville, Fla. 32202  
U.S.A.  
Jim O'Leary, Chairman, CEO & President  
904-791-4500  
www.haskell.com

## **Hathaway Dinwiddie Construction Co.**

275 Battery Street, Suite 300  
San Francisco, Calif. 94111  
U.S.A.  
Greg Cosko, President & CEO  
415-986-2718  
www.hdcco.com

## **Hazen and Sawyer**

498 Seventh Avenue, 11 Floor  
New York, N.Y. 10018  
U.S.A.  
Ron Taylor, PE, President and Chief Executive Officer  
(212) 539-7000  
www.hazenandsawyer.com

## **Hensel Phelps**

420 6th Ave  
Greeley, Colo. 80631  
U.S.A.  
Mike Choutka, CEO  
www.henselphelps.com

## **Herzog**

600 S. Riverside Rd  
St. Joseph, Mo. 64507  
U.S.A.  
Brad Lager, Chairman and CEO  
www.herzog.com

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## **Hoar Construction**

Two Metroplex Drive, Ste 400  
Birmingham, Ala. 35209  
U.S.A.  
Turner Burton, President  
2058032121  
hoar.com

## **Hoffman Construction**

805 SW Broadway Suite 2100  
Portland, Ore. 97205  
U.S.A.  
David Drinkward, President/CEO  
503.221.8811  
www.hoffmancorp.com

## **Holder Construction**

3300 Riverwood Parkway, Suite 1200  
Atlanta, Ga. 30339  
U.S.A.  
Wayne E. Wadsworth, Chief Executive Officer  
770.988.3000  
www.holderconstruction.com

## **Hunter Roberts Construction Group LLC**

55 Water Street  
New York, N.Y. 10041  
U.S.A.  
James C. McKenna, President & CEO  
212-321-6800  
www.hrcg.com

## **IMEG Corp.**

623 26th Avenue  
Rock Island, Ill. 61201  
U.S.A.  
Paul VanDuyne, President/CEO  
3097880673  
imegcorp.com

## **IPS-Integrated Project Services LLC**

721 Arbor Way, Suite 100  
Blue Bell, Pa. 19422  
U.S.A.  
Dave Goswami, PE, Chairman & Chief Executive

Officer  
610-828-4090  
www.ipsdb.com

## **Intertek-PSI**

545 E. Algonquin Rd.  
Arlington Heights, Ill. 60005  
U.S.A.  
Doug Dayton, President  
6304813100  
www.intertek.com/building

## **J.H. Findorff & Son Inc.**

300 South Bedford St  
Madison, Wis. 53703  
U.S.A.  
Jim Yehle, President & CEO  
6084427065  
www.findorff.com

## **J.T. Magen & Co. Inc.**

44 West 28th Street, 11th Floor  
New York, N.Y. 10001  
U.S.A.  
Maurice Regan, President  
(212) 790-4200  
www.jtmagen.com

## **JE Dunn Construction Group**

1001 Locust St  
Kansas City, Mo. 64106  
U.S.A.  
Gordon E Lansford III, President & Chief Executive  
Officer  
8164748600  
www.jedunn.com

## **JRM Construction Management**

242 West 36th St, 11th Floor  
New York, N.Y. 10018  
U.S.A.  
David G. McWilliams, David B. McWilliams, Joseph P.  
Romano, CEO, COO, President  
212-545-0500  
www.jrmcm.com

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## **Jacobs Solutions Inc.**

1999 Bryan Street, Suite 1200  
Dallas, Texas 75201

U.S.A.

Robert V. Pragada, Chief Executive Officer

1.214.638.0145

[www.jacobs.com](http://www.jacobs.com)

## **Jensen Hughes**

3610 Commerce Drive, Suite 817  
Baltimore, Md. 21227

U.S.A.

Raj Arora, Chief Executive Officer

1-410-737-8677

[www.jensenhughes.com](http://www.jensenhughes.com)

## **Johnson Mirmiran & Thompson Inc. (JMT)**

40 Wight Avenue  
Hunt Valley, Md. 21030

U.S.A.

John A. Moeller, President

410-329-3100

[www.jmt.com](http://www.jmt.com)

## **KCI Technologies Inc.**

936 Ridgebrook Road  
Sparks, Md. 21152

U.S.A.

Nathan Beil, Chairman of the Board and CEO

410-316-7800

[www.kci.com](http://www.kci.com)

## **KPRS Construction**

2850 Saturn  
Brea, Calif. 92821

U.S.A.

Joel Stensby, CEO/President

7146720800

[www.kprsinc.com](http://www.kprsinc.com)

## **Kiewit Corp.**

1550 Mike Fahey St  
Omaha, Neb. 68102

U.S.A.

Rick Lanoha, President/CEO

402-342-2052

[kiewit.com](http://kiewit.com)

## **Kimley-Horn**

421 Fayetteville Street, Suite 600  
Raleigh, N.C. 27601

U.S.A.

Steven E. Lefton, FASLA, PLA, AICP, President/CEO

919-677-2000

[www.kimley-horn.com](http://www.kimley-horn.com)

## **Kleinfelder**

770 First Avenue, Suite 400  
San Diego, Calif. 92101

U.S.A.

Louis Armstrong, CEO

619-831-4600

[www.kleinfelder.com](http://www.kleinfelder.com)

## **Kohn Pedersen Fox**

11 W 42nd Street  
New York, N.Y. 10036

U.S.A.

James von Klemperer, President

212 977 6500

[www.kpf.com](http://www.kpf.com)

## **LANGAN**

300 Kimball Drive, 4th Floor  
Parsippany, N.J. 7054

U.S.A.

David T. Gockel, President/CEO

9735604900

[www.langan.com](http://www.langan.com)

## **LEO A DALY**

8600 Indian Hills Drive  
Omaha, Neb. 68114

U.S.A.

Steve Lichtenberger, President

402.391.8111

[www.leoadaly.com](http://www.leoadaly.com)

## **LJA Engineering**

3600 W Sam Houston Pkwy S, Suite 600

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Houston, Texas 77042  
U.S.A.  
James Ross, PE, President & CEO  
713-953-5200  
www.lja.com

**LeChase Construction Services LLC**  
205 Indigo Creek Drive  
Rochester, N.Y. 14626  
U.S.A.  
William H. Goodrich, CEO & Managing Partner  
5852543510  
www.lechase.com

**Leidos**  
1750 Presidents Street  
Reston, Va. 20190  
U.S.A.  
Roger Krone, Chairman, CEO and President  
3126054365  
www.leidos.com

**Level 10 Construction**  
1050 Enterprise Way, Suite 250  
Sunnyvale, Calif. 94089  
U.S.A.  
Paul Moran, Chief Executive Officer, President  
www.level10gc.com

**ME Engineers**  
14143 Denver West Pkwy. Suite 300  
Golden, Colo. 80401  
U.S.A.  
Mike Hart, CEO, Senior Principal, Managing Director  
3034216655  
me-engineers.com

**MG2**  
1101 Second Ave Suite 100  
Seattle, Wash. 98101  
U.S.A.  
Mitch Smith, CEO  
(206) 962-6500  
www.MG2.com

**Manhattan Construction Group**  
5601 South 122nd East Avenue  
Tulsa, Okla. 74146  
U.S.A.  
Larry Rooney, President  
(918) 583-6900  
www.manhattanconstructiongroup.com

**MasTec Inc.**  
800 S. Douglas Rd., 12th Floor  
Coral Gables, Fla. 33134  
U.S.A.  
Jose Mas, Chief Executive Officer  
3055991800  
www.mastec.com

**Matrix Service Co.**  
15 E. 5th St., Ste. 1100  
Tulsa, Okla. 74103  
U.S.A.  
John R. Hewitt, President and Chief Executive Officer  
866-367-6879  
www.matrixservicecompany.com

**McCarthy Holdings Inc.**  
12851 Manchester Road  
St. Louis, Mo. 63131  
U.S.A.  
Ray Sedey, Chairman and Chief Executive Officer  
314-968-3300  
www.McCarthy.com

**McGough**  
2737 Fairview Ave. N  
St. Paul, Minn. 55113  
U.S.A.  
Tom McGough Jr., CEO  
651-633-5050  
www.mcgough.com

**Mead & Hunt Inc.**  
2440 Deming Way  
Middleton, Wis. 53562  
U.S.A.  
Andrew Platz, Chairman, CEO and President

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608-273-6380  
www.meadhunt.com

## **Merrick & Co.**

5970 Greenwood Plaza Blvd  
Greenwood Village, Colo. 80111  
U.S.A.  
Christopher Sherry, Chairman, CEO, President  
303-751-0741  
www.merrick.com

## **Messer Construction Co.**

643 W. Court Street  
Cincinnati, Ohio 45212  
U.S.A.  
Tim Steigerwald, President & CEO  
513-242-1541  
www.messer.com

## **Michael Baker International**

500 Grant Street Suite 5400  
Pittsburgh, Pa. 15219  
U.S.A.  
Brian A. Lutes, Chief Executive Officer  
(412)918-4000  
www.mbakerial.com

## **Michels Corp.**

817 Main Street  
Brownsville, Wis. 53006  
U.S.A.  
Patrick D. Michels, President & CEO  
920-924-4300  
www.michels.us

## **Miron Construction Co. Inc.**

1471 McMahon Drive  
Neenah, Wis. 54956  
U.S.A.  
David. G. Voss, Jr., President & CEO  
920-969-7000  
www.miron-construction.com

## **Moffatt & Nichol**

4225 East Conant Street

Long Beach, Calif. 90808  
U.S.A.  
Eric Nichol, President and CEO  
562-590-6500  
www.moffattnichol.com

## **Morrison Hershfield**

1455 Lincoln Pkwy, Suite 500  
Atlanta, Ga. 30346  
U.S.A.  
Anthony Karakatsanis, President and CEO  
770-379-8500  
www.morrisonhershfield.com

## **Mortenson**

700 Meadow Lane  
Minneapolis, Minn. 55422  
U.S.A.  
Dan Johnson, Chief Executive Officer  
763-287-2100  
www.mortenson.com

## **Moss**

2101 N Andrews Ave  
Fort Lauderdale, Fla. 33311  
U.S.A.  
Scott Moss, CEO  
9545245678  
mosscm.com

## **NBBJ**

223 Yale Ave N  
Seattle, Wash. 98109  
U.S.A.  
Robert Mankin, Managing Partner  
206-223-5555  
www.nbbj.com

## **NORR**

325 N. LaSalle Street, Suite 500  
Chicago, Ill. 60654  
U.S.A.  
Brian Gerstmar, President & Chief Executive Officer  
312 424 2400  
www.norr.com

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## **NV5 Global Inc.**

200 S. Park Road, Suite 350  
Hollywood, Fla. 33021  
U.S.A.  
Dickerson Wright, Chairman & CEO  
(954) 495-2112  
www.nv5.com

## **Nabholz**

612 Garland  
Conway, Ark. 72032  
U.S.A.  
Jake Nabholz, CEO  
501.505.5800  
www.nabholz.com

## **O'Neil Industries Inc.**

1245 West Washington Blvd.  
Chicago, Ill. 60607  
U.S.A.  
Brian Ramsay, CEO  
773-755-1611  
www.weoneil.com

## **Okland Construction**

1978 South West Temple  
Salt Lake City, Utah 84115  
U.S.A.  
William Okland, CEO  
(801) 486-0144  
www.okland.com

## **Olsson Inc.**

601 P Street; Suite 200  
Lincoln, Neb. 68508  
U.S.A.  
Brad Strittmatter, Chief Executive Officer  
402-474-6311  
www.olsson.com

## **Otak Inc.**

808 SW 3rd Ave, Suite 800  
Portland, Ore. 97204  
U.S.A.  
James Hamann, Chief Executive Officer & President

(503) 287-6825  
www.otak.com

## **PCL Construction Enterprises**

2000 S. Colorado Blvd. Suite 2-500  
Denver, Colo. 80222  
U.S.A.  
Dave Filipchuk, President and Chief Executive Officer  
303-365-6500  
www.PCL.com

## **PJ Dick - Trumbull - Lindy Group**

225 North Shore Drive  
Pittsburgh, Pa. 15212  
U.S.A.  
Jake Ploeger and Tim O'Brien, Co-CEOs  
412-807-2000  
www.pjdick.com

## **POWER Engineers Inc.**

3940 Glenbrook Drive  
Hailey, Idaho 83333  
U.S.A.  
Jim Haynes, Chief Executive Officer  
(208) 788-3456  
powereng.com

## **Page Southerland Page Inc.**

1615 M Street, NW, Suite 700  
Washington, D.C. 20036  
U.S.A.  
Thomas McCarthy, CEO  
202-909-4900  
pagethink.com

## **Parsons Corp.**

5875 Trinity Pkwy #300  
Centreville, Va. 20120  
U.S.A.  
Carey Smith, President And Chief Executive Officer  
1 980.253.9781  
www.parsons.com

## **Pepper Construction**

643 N. Orleans Street

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Chicago, Ill. 60654

U.S.A.

J. Stanley Pepper, Chairman and CEO

312-266-6700

www.pepperconstruction.com

## **Perkins Eastman**

115 Fifth Avenue

New York, N.Y. 10003

U.S.A.

Andrew Adelhardt III, Shawn Basler, Nick Leahy, Co-CEOs

212 353 7200

perkinseastman.com

## **Pernix Group Inc.**

151 East 22nd Street

Lombard, Ill. 60148

U.S.A.

Nidal Zayed, CEO & President

630-620-4787

www.pernixgroup.com

## **Populous**

4800 Main Street, Suite 300

Kansas City, Mo. 64112

U.S.A.

Bruce Miller, Senior Principal, Managing Director - Americas

8162211500

www.populous.com

## **Power Construction Co. LLC**

8750 West Bryn Mawr Avenue, Suite 500

Chicago, Ill. 60631-3546

U.S.A.

Jeff Geier, President and CEO

312-596-6960

www.powerconstruction.net

## **RATIO**

101 S Pennsylvania St.

Indianapolis, Ind. 46204

U.S.A.

Bill Browne, Jr., CEO

317-633-4040

ratiodesign.com

## **RK&K**

700 East Pratt Street, Suite 500

Baltimore, Md. 21202

U.S.A.

Miriam Kronisch, Partner

410-728-2900

www.rkk.com

## **RS&H Inc.**

10748 Deerwood Park Blvd So

Jacksonville, Fla. 32256

U.S.A.

David T. Sweeney, President/CEO

904-256-2500

www.rsandh.com

## **Rebel Design+Group**

2554 Lincoln Blvd, Suite 725

Marina Del Rey, Calif. 90292

U.S.A.

Douglas DeBoer, Founder/CEO

800.92.REBEL

www.rebeldesign.com

## **Robert A.M. Stern Architects**

1 Park Ave

New York, N.Y. 10016

U.S.A.

212-967-5100

www.ramsa.com

## **Robins & Morton**

400 Shades Creek Parkway

Birmingham, Ala. 35209

U.S.A.

Bill Morton, Chairman/CEO

2058701000

www.robinsmorton.com

## **Roncelli Inc.**

6471 Metro Parkway

Sterling Heights, Mich. 48312

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U.S.A.

Gary Roncelli, Chairman-CEO  
586-264-2060  
www.roncelli-inc.com

## **Ryan Cos. US Inc.**

533 S 3rd St #100  
Minneapolis, Minn. 55415

U.S.A.

Brian Murray, Chief Executive Officer  
612-492-4000  
www.ryancompanies.com

## **S&B Engineers and Constructors**

15150 Memorial Drive  
Houston, Texas 77079

U.S.A.

J. W. "Brook" Brookshire, Chief Executive Officer  
713.845.4141  
www.sbec.com

## **SB Architects**

415 Jackson St, Suite 100  
San Francisco, Calif. 94111

U.S.A.

Scott Lee, President & Principal  
415-673-8990  
sb-architects.com

## **SCS Engineers**

3900 Kilroy Airport Way  
Long Beach, Calif. 90806

U.S.A.

James J. Walsh, President/ CEO  
562-426-9544  
www.scsengineers.com

## **SSOE Group**

100 Madison Avenue  
Toledo, Ohio 43604

U.S.A.

Vincent P DiPofi, CEO  
419-255-3830  
www.ssoe.com

## **STO Building Group**

330 West 34th Street  
New York, N.Y. 10001

U.S.A.

Robert W. Mullen, Chief Executive Officer  
212-481-6100  
www.stobuildinggroup.com

## **STUDIOS architecture**

1625 M Street NW  
Washington, D.C. 20036

U.S.A.

Marc Pfenninger, Principal, Chief Executive Officer  
212 431 4512  
studios.com

## **STV**

225 Park Avenue South  
New York, N.Y. 10003

U.S.A.

Greg Kelly, P.E, President and Chief Executive Officer  
212.777.4400  
www.stvinc.com

## **Salas O'Brien**

8825 Research Drive  
Irvine, Calif. 92618

U.S.A.

Darin Anderson, Chairman & CEO  
949.753.1553  
www.salasobrien.com

## **Samet Corp.**

309 Gallimore Dairy Road  
Greensboro, N.C. 27409

U.S.A.

Arthur Samet, CEO  
3365442600  
www.sametcorp.com

## **Sargent & Lundy**

55 East Monroe Street  
Chicago, Ill. 60630

U.S.A.

Victor Suchodolski, Chairman, President & CEO

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312-269-2000  
www.sargentlundy.com

## **Shawmut Design and Construction**

560 Harrison Avenue  
Boston, Mass. 2118  
U.S.A.

Les Hiscoe, Chief Executive Officer  
617.622.7000  
www.shawmut.com

## **Simpson Gumpertz & Heger**

480 Totten Pond Road  
Waltham, Mass. 2451  
U.S.A.

James Parker, Chief Executive Officer  
781-907-9000  
www.sgh.com

## **Skidmore Owings & Merrill**

7 World Trade Center, 250 Greenwich Street  
New York, N.Y. 10007  
U.S.A.

Laura Ettelman, Xuan Fu, Carrie Byles, Executive  
Committee  
212-298-9300  
www.som.com

## **SmithGroup**

500 Griswold Street, Suite 1700  
Detroit, Mich. 48226  
U.S.A.

Troy Thompson, CEO, Managing Partner  
www.smithgroup.com

## **Southland Holdings**

1100 Kubota Dr.  
Grapevine, Texas 76051  
U.S.A.

Frank Renda, President and CEO  
(817) 293-4263  
www.southlandholdings.com

## **Stanley Consultants**

225 Iowa Ave

Muscatine, Iowa 52778  
U.S.A.

Kate Harris, President & CEO  
563-264-6239

## **Sterling Infrastructure Inc.**

1800 Hughes Landing Blvd Ste 250  
The Woodlands, Texas 77380  
U.S.A.

Joseph A. Cutillo, Chief Executive Officer  
281-214-0800  
www.strlco.com

## **Suffolk Construction Co. Inc.**

65 Allerton Street  
Boston, Mass. 2119  
U.S.A.

John Fish, Chairman & CEO  
607-445-3500  
www.suffolk.com

## **Summit Contracting Group Inc.**

7595 Baymeadows Way, Suite 100  
Jacksonville, Fla. 32256  
U.S.A.

Marc Padgett, President  
9042685515  
www.Summit-Contracting.com

## **Sundt Construction Inc.**

2620 S. 55th Street  
Tempe, Ariz. 85282  
U.S.A.

G Michael Hoover, President & CEO  
480 293 3000  
www.sundt.com

## **Swinerton**

2001 Clayton Road, 7th Floor  
Concord, Calif. 94520  
U.S.A.

Eric Foster, Chief Executive Officer  
925.602.6400  
swinerton.com

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## **TRC Cos. Inc.**

21 Griffin Rd N  
Windsor, Conn. 6095  
U.S.A.  
Christopher P. Vincze, Chairman and CEO  
1 (860) 295-4161  
www.trccompanies.com

## **Teichert Construction**

3500 American River Drive  
Sacramento, Calif. 95864  
U.S.A.  
Jud Riggs, CEO  
916-484-3011  
www.teichert.com

## **Terracon Consultants Inc.**

10841 S. Ridgeview Road  
Olathe, Kan. 66061  
U.S.A.  
M. Gayle Packer, President and Chief Executive Officer  
(800) 593-7777  
www.terracon.com

## **Tetra Tech**

3475 E. Foothill Boulevard  
Pasadena, Calif. 91107  
U.S.A.  
Dan L. Batrack, Chief Executive Officer  
626-351-4664  
tetratech.com

## **The Beck Group**

1601 Elm Street, Suite 2800  
Dallas, Texas 75201  
U.S.A.  
Fred Perpall, CEO  
214.303.6200  
www.beckgroup.com

## **The Boldt Co.**

2121 E. Capitol Drive  
Appleton, Wis. 54911  
U.S.A.

Tom Boldt, Chief Executive Officer  
920-739-6321  
www.theboldtcompany.com

## **The Christman Co.**

208 N Captitol Avenue  
Lansing, Mich. 48933  
U.S.A.  
Steven F. Roznowski, President and Chief Executive Officer  
517-482-1488  
www.christmanco.com

## **The Cianbro Cos.**

PO Box 1000  
Pittsfield, Maine 4967  
U.S.A.  
Peter A Vigue, President & CEO  
207-679-2311  
www.cianbro.com

## **The Conlan Company**

1850 PARKWAY PLACE, SUITE 1200  
Marietta, Ga. 30067  
U.S.A.  
Gary Condron, CEO  
770-423-8000  
www.conlancompany.com

## **The Kokosing Group of Cos.**

6235 Westerville Road  
Westerville, Ohio 43081  
U.S.A.  
Wm. Brett Burgett, Co. Chief Executive Officer  
614-212-5700  
www.kokosing.biz

## **The McShane Cos.**

9500 W Bryn Mawr Avenue, Suite 200  
Rosemont, Ill. 60018  
U.S.A.  
Molly McShane, Chief Executive Officer  
8472924300  
www.mcshane.com

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## **The Rudolph Libbe Cos. Inc.**

6494 Latcha Road  
Walbridge, Ohio 43465  
U.S.A.  
William Rudolph, Chairman  
419.241.5000  
www.rlgbuilds.com

## **The Walsh Group**

929 W. Adams  
Chicago, Ill. 60607  
U.S.A.  
Matt Walsh, Co-Chairman  
3125635400  
www.walshgroup.com

## **The Whiting-Turner Contracting Co.**

300 East Joppa Rd.  
Baltimore, Md. 21286  
U.S.A.  
Timothy Regan, President & CEO  
410-821-1100  
www.whiting-turner.com

## **The Yates Cos. Inc.**

104 Gully Avenue  
Philadelphia, Miss. 39350  
U.S.A.  
William G. Yates, III, President  
601-656-5411  
www.wgyates.com

## **Thornton Tomasetti**

120 Broadway  
New York, N.Y. 10271  
U.S.A.  
Michael Squarzini & Peter DiMaggio, Co-CEO  
1.917.661.7800  
www.thorntontomasetti.com

## **Tower Engineering Professionals**

326 Tryon Road  
Raleigh, N.C. 27603  
U.S.A.  
Andrew Haldane, CEO

919-661-6351  
www.tepgroup.net

## **TranSystems**

2400 Pershing Rd Ste 400  
Kansas City, Mo. 64108  
U.S.A.  
Richard Morsches, Chief Executive Officer  
816-329-8600  
www.transystems.com

## **Traylor Construction Group Inc.**

835 N. CONGRESS AVE.  
Evansville, Ind. 47711  
U.S.A.  
Christopher S. Traylor, Co-President  
(812) 477-1542  
www.traylor.com

## **Turner Industries Group LLC**

8687 United Plaza Boulevard  
Baton Rouge, La. 70809  
U.S.A.  
Stephen M. Toups, CEO  
2259225050  
www.turner-industries.com

## **Tutor Perini Corp.**

15901 Olden St.  
Sylmar, Calif. 91342  
U.S.A.  
Ron N. Tutor, Chairman, CEO & President  
(818) 362-8391  
www.tutorperini.com

## **United Engineers & Constructors Inc.**

305 Fellowship Rd., Suite 300  
Mt. Laurel, N.J. 8054  
U.S.A.  
Scott Reeder, Chief Executive Officer  
856-333-3091  
www.ueci.com

## **Universal Engineering Sciences**

4205 Vineland Road, Suite L1

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Orlando, Fla. 32811  
U.S.A.  
Dave Witsken, CEO  
407-423-0504  
teamues.com

## **VHB**

101 Walnut Street  
Watertown, Mass. 2471  
U.S.A.  
Mike Carragher, President & CEO  
617.924.1770  
www.vhb.com

## **WATG**

300 Spectrum Center Drive  
Irvine, Calif. 92618  
U.S.A.  
Dave Moore, President & CEO  
www.watg.com

## **Walbridge**

777 Woodward Ave Ste 300  
Detroit, Mich. 48226  
U.S.A.  
Michael Haller, CEO  
313-963-8000  
www.walbridge.com

## **Waldemar S. Nelson and Co. Inc.**

1200 St. Charles Ave.  
New Orleans, La. 70130  
U.S.A.  
Charles Nelson, Chairman  
504-523-5281  
www.wsnelson.com

## **Ware Malcomb**

10 Edelman  
Irvine, Calif. 92618  
U.S.A.  
Ken Wink, CEO  
949.660.9128  
www.waremalcomb.com

## **Weeks Marine Inc.**

4 Commerce Drive  
Cranford, N.J. 7016  
U.S.A.  
Eric Ellefsen, CEO, President  
9082724010  
www.weeksmarine.com

## **Westwood Professional Services**

12701 Whitewater Drive, Suite 300  
Minnetonka, Minn. 55343  
U.S.A.  
Paul Greenhagen, Chief Executive Officer  
888-937-5150  
www.westwoodps.com

## **Willdan**

2401 E. Katella Avenue, Suite 300  
Anaheim, Calif. 92806  
U.S.A.  
Thomas D. Brisbin, CEO, Chairman of the Board  
714-940-6300  
www.willdan.com

## **Wiss Janney Elstner Associates**

330 Pfingsten Road  
Northbrook, Ill. 60062  
U.S.A.  
William J. Nugent, President and CEO  
847-272-7400  
www.wje.com

## **Woodard & Curran**

41 Hutchins Drive  
Portland, Maine 4102  
U.S.A.  
Alyson Watson, PE, Chief Executive Officer  
207.774.2112  
www.woodardcurran.com

## **Woolpert Inc.**

4454 Idea Center Blvd.  
Dayton, Ohio 45430  
U.S.A.  
Scott Cattran, President & CEO

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937.461.5660  
www.woolpert.com

## **Zachry Group**

527 Logwood Avenue  
San Antonio, Texas 78221  
U.S.A.

John B. Zachry, CEO and Chairman  
(210) 588-5000  
www.zachrygroup.com

## **Pond and Co.**

3500 Parkway Lane, Suite 500  
Peachtree Corners, Ga. 30092  
U.S.A.

Bob Williams, CEO  
678-336-7740  
pondco.com

## **MWH**

8001 Arista Place, Ste 500  
Broomfield, Colo. 80021  
U.S.A.  
Blair Lavoie, President/CEO  
720-547-5400  
www.mwhconstructors.com

## **MBH Architects**

960 Atlantic Ave  
Alameda, Calif. 94501  
U.S.A.  
John McNulty, Founding Principal, Architect, CEO  
510-865-8663  
www.mbharch.com

## **Raba Kistner Inc.**

12821 West Golden Lane  
San Antonio, Texas 78249  
U.S.A.  
Chris L. Schultz, President and CEO  
210-699-9090  
www.rkci.com

## **RailWorks**

5 Penn Plaza – 15th Floor

New York, N.Y. 10001  
U.S.A.  
212-502-7900  
RailWorks.com

## **United Arab Emirates**

### **ALSUWEIDI Engineering Consultants Bureau**

Al Teejan Street, Al Zahiyah  
Abu Dhabi, Abu Dhabi 139  
United Arab Emirates  
Anas Diab, General Manager  
971 2 644 4000  
www.suweidi.com

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