

ENR THE GLOBAL SOURCEBOOK

War Rattles Global Markets, Shifting Project Risks

Comparing Top 225 International Design Firms revenue from 2020 to 2021 reveals a market at times paralyzed by project risks. As rising construction costs, COVID-19 impacts and a stop-and-go supply chains kept owners second-guessing timelines and investments, Top 225 firms used market data to help rescope projects to improve cost certainty.

“All markets are still feeling the impact of the global COVID-19 pandemic,” says Alan Manuel, CEO, Currie & Brown, a Dar Group company. “Combined with the ongoing uncertainty stemming from Russia’s invasion of Ukraine, we are experiencing a growing insecurity among clients that affects the viability of projects and the way we work with them to identify and overcome risks to ensure delivery.”

Driving more change in market sectors around the world is an abundance of big ticket federal infrastructure spending plans meant to bolster economic recovery from the pandemic and push countries toward a more climate resilient and sustainable future—such as the \$1.2-trillion Infrastructure Investment and Jobs Act, China’s plan to spend \$1.1 trillion to spur economic movement, Africa’s 2063 agenda, Saudi Arabia’s Vision 2030 and Europe’s more than \$800-billion Next-GenerationEU package, among others.

“There are definitely a lot of variables that play a role when it comes to the market internationally,” explains Mazouz Sahm, Euro Group vice president of



THE GRAND MOSQUE

Sembol is the contractor for the nearly complete 68,060-sq-meter Grand Mosque in Astana, Kazakhstan.

global business development. He adds, “An increase in sustainability usage, project management software and design software” such as digital twins and BIM are also changing the way design firms work collaboratively at a global scale.

Although the Top 250 International Contractors named a mix of countries when asked about best market opportunity and why, the common denominator for many firms was regions with infrastructure investment.

“There are definitely a lot of variables that play a role when it comes to the market internationally,” explains Mazouz Sahm, Euro Group vice president of

As sweeping and wide-ranging as such infrastructure spending plans may be, political and economic instability can quickly bring major winds of change to regions. Since Russia’s declaration of war on Ukraine, the conflict has increased fossil fuel prices, accelerating an interest in alternative energy, explains Alan Gelder, vice president of refining, chemicals and oil markets for research and consulting firm Wood Mackenzie.

“The challenge around an energy transition is typically a new technology costs more,” he says. “Because we’ve now got high fossil fuel [prices], that counterbalances that.”

The immediate winners have been the major fossil fuel producers in the Middle East, Gelder explains. But with countries seeking to untangle themselves from Russia’s energy sector and long-term business dealings with the country, Gelder says the renewable energy transition could ease demand and bring costs down.

“So not only have you got countries wanting to reduce their dependence on fossil fuels because energy has been weaponized, the consumer is also much more amenable because of the very high prices that we have seen for refined products and transport fuels,” he says.

Since Russia’s invasion of Ukraine, companies such as Strabag have wound down their activities in Russia. Strabag had been cutting back since Russia’s 2014 occupation of Crimea,

says CEO Thomas Birtel. Despite economic predictions, Birtel believes the global contracting market will be largely protected from the effects of a recession because of the abundance of infrastructure sector demand.

“On the contrary, probably [a recession] would be seen as a stimulus,” he says, “to further invest in infrastructure.”

By Emell Adolphus, Jonathan Keller and Peter Reina



TANZANIA**Expanding a Railway**

Yapi Merkezi of Turkey has begun construction on the 228-mile third phase of the Dar es Salaam-Mwanza railway. The four-year, \$1.9-billion project between the cities of Makutupora and Tabora will include seven stations plus signaling, telecommunications and electrical systems. Yapi Merkezi constructed the first and second sections of a 757-mile freight and passenger rail link between the Indian Ocean and Lake Victoria. The firm signed a \$900-million contract with Tanzania's government to build a 102-mile section in the country's northwestern region.

ROMANIA**Mountain Mobility**

A Webuild-led consortium has won a \$1-billion contract to design and build a 23.2-mile section of the new Sibiu-Pitesti Highway. To cross the Carpathian Mountains, the project will include a mile-long twin tunnel and nearly 50 viaducts totaling 7.7 miles. Other features include 14 miles of double-lane highway, two interchanges, a maintenance and control center and an animal crossing at the Olt River.

AUSTRALIA**Linking Air and Rail**

The joint venture of CPB Contractors and United Infrastructure will provide surface civil and alignment services for the Sydney Metro-Western Sydney Airport rail link between Orchard Hills and the new Western Sydney Airport station. The two-year, \$395-million project includes more than 4 miles of earthworks, a 2.1-mile elevated viaduct, two bridges and access roads. CPB Contractors has other projects at the airport, which will begin operation in 2026.

NORWAY**Decongesting an Oslo Corridor**

Construction is underway on a key 1.2-mile section of the new E18 Western Corridor near Oslo. Skanska is building the \$295-million, six-lane highway, which will include a 3,900-ft long tunnel as well as changes and upgrades to the surrounding road system, a new bridge and retaining walls. The E18 will replace one of the country's busiest road systems, reducing congestion and improving accessibility for public transportation.

POLAND**NEW TERMINAL WILL DOUBLE CAPACITY AT THE PORT OF GDANSK**

Budimex, a subsidiary of Ferrovial in Poland, is teaming up with Dredging International, a DEME Group company based in Belgium, to build a new \$258-million terminal in Gdansk, on the Baltic Sea.



Spanning nearly 3.9 million sq ft, the project will include a 2,350-ft-long deepwater pier and a 2,300-ft-long mooring front that can accommodate the largest container ships currently in operation. When completed in early 2025, the project will boost Gdansk's total capacity to 4.5 million containers, making it one of Europe's largest ports.

74.2%

Volume of global air passenger traffic in October 2022, compared with the same period in 2019.

Source: International Air Transport Association

Breathtaking Bridge

New Zealand's first extradosed crossing will be star of road project



GREENER A planned highway in North Auckland will be built with methods to save 20% in emissions.

New Zealand's first extradosed bridge will be the centerpiece of the \$320-million O Mahurangi Penlink project in North Auckland. It will be designed and built by a consortium that includes VINCI subsidiary HEB Construction. The 4.3-mile, two-lane highway will include five other bridges as well as a shared-use path for pedestrians and cyclists. The project team says it will use design and construction methodologies that achieve a 20% reduction in carbon emissions compared with traditional approaches. For example, a lowered entrance to the 1,804-ft-long extradosed bridge will shorten the overall length by more than 770 ft, reducing the steel and concrete needed while complementing the landscape. Construction is scheduled to be complete in 2026. ■

By Jim Parsons

Top International Contractors

TRANSPORTATION		
RANK	FIRM	REVENUE (\$ MIL.)*
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	16,022.2
2	VINCI	12,361.0
3	GRUPO ACS/HOCHTIEF	10,898.4
4	BOUYGUES	10,392.0
5	STRABAG SE	8,558.3
6	CHINA RAILWAY CONSTRUCTION CORP. LTD.	6,769.0
7	FERROVIAL	6,059.0
8	CHINA RAILWAY GROUP LTD.	5,529.8
9	SKANSKA AB	4,384.6
10	POWER CONSTRUCTION CORP. OF CHINA	2,992.2
11	WEBUILD SPA	2,801.2
12	SACYR	2,651.2
13	BECHTEL	1,999.0
14	PORR AG	1,933.7
15	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	1,862.2
16	OBAYASHI CORP.	1,808.0
17	OHLA	1,677.9
18	EIFFAGE	1,560.0
19	MOTA-ENGIL	1,531.0
20	LIMAK INSAAT SANAYI VE TICARET AS	1,413.0
21	YAPI MERKEZI INSAAT VE SANAYI AS	1,320.7
22	SAMSUNG C&T CORP.	1,144.0
23	ORASCOM CONSTRUCTION PLC	1,056.4
24	VAN OORD NV	818.6
25	ITINERA SPA	778.5
26	WSP GLOBAL INC.	757.0
27	ONUR TAAHHUT TASIMACILIK INSAAT TIC. VE SANAYI AS	749.3
28	RENAISSANCE CONSTRUCTION	716.2
29	FCC SA	665.5
30	DAEWOO ENGINEERING AND CONSTRUCTION CO. LTD.	561.4
31	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	557.5
32	CONSOLIDATED CONTRACTORS GROUP	550.0
33	ALARKO CONTRACTING GROUP	508.7
34	PENTA-OCEAN CONSTRUCTION CO. LTD.	481.5
35	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	479.8
36	BESIX	469.8
37	ZHONGMEI ENGINEERING GROUP LTD.	462.4
38	ROYAL BOSKALIS WESTMINSTER NV	460.0
39	GULERMAK	455.4
40	AFCONS INFRASTRUCTURE LTD.	447.1
41	KIEWIT CORP.	404.7
42	GHELLA SPA	370.0
43	IMPRESA PIZZAROTTI & C. SPA	342.7
44	TAV CONSTRUCTION	342.6
45	SHANDONG HI-SPEED GROUP CO. LTD.	336.7
46	CHINA NATIONAL MACHINERY INDUSTRY CORP.	335.2
47	CHINA ENERGY ENGINEERING CORP. LTD.	333.0
48	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	326.7
49	GS ENGINEERING & CONSTRUCTION	318.6
50	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	300.1

Top International Design Firms

TRANSPORTATION		
RANK	FIRM	REVENUE (\$ MIL.)*
1	WSP GLOBAL INC.	2,737.4
2	AECOM	1,764.5
3	SNC-LAVALIN INC.	1,522.4
4	JACOBS	1,150.3
5	ARCADIS NV/CALLISON RTKL	812.5
6	DAR GROUP	771.0
7	MOTT MACDONALD	682.3
8	EGIS	673.3
9	SYSTRA	653.0
10	ARUP GROUP LTD.	580.3
11	STANTEC INC.	550.3
12	SWECO AB	506.0
13	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	448.1
14	RAMBOLL GROUP A/S	405.3
15	COWI A/S	331.2
16	SURBANA JURONG PRIVATE LTD.	300.5
17	HATCH LTD.	291.0
18	PARSONS CORP.	250.7
19	AFRY	246.0
20	WOOD	221.1
21	EXP	203.0
22	ORIENTAL CONSULTANTS GLOBAL	200.0
23	TECNICA Y PROYECTOS SA (TYPSA)	160.5
24	HDR	160.2
25	AYESA	143.2
26	ROYAL HASKONINGDHV	137.9
27	GHD	135.2
28	TPF SA	132.9
29	SENER GRUPO DE INGENIERIA SA	125.2
30	AURECON	116.7
31	TETRA TECH INC.	116.0
32	NIPPON KOEI GROUP	115.8
33	JSTI GROUP	106.0
34	MEINHARDT GROUP INTERNATIONAL	94.5
35	CTI ENGINEERING GROUP	85.3
36	IDOM	84.5
37	SETEC	78.3
38	KHATIB & ALAMI	69.4
39	CHINA RAILWAY CONSTRUCTION CORP. LTD.	67.0
40	ITALCONSULT SPA	61.5
41	ARTELIA	61.1
42	FUGRO NV	59.3
43	BEAM LONGEST & NEFF	56.8
44	CHINA RAILWAY DESIGN CORP.	55.7
45	KIEWIT CORP.	54.0
46	MORRISON HERSHFIELD	53.6
47	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	50.5
48	INGEROP	48.3
49	CHODAI GROUP	46.5
50	ILF CONSULTING ENGINEERS	45.5

*BASED ON 2021 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 2021 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

Top International Contractors

HIGHWAYS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	5,466.5
2	GRUPO ACS/HOCHTIEF	4,072.5
3	SACYR	2,050.5
4	CHINA RAILWAY CONSTRUCTION CORP. LTD.	1,803.0
5	SKANSKA AB	1,420.7
6	WEBUILD SPA	1,366.8
7	CHINA RAILWAY GROUP LTD.	1,199.7
8	POWER CONSTRUCTION CORP. OF CHINA	1,124.7
9	OHLA	998.1
10	ONUR TAAHHUT TASIMACILIK INSAAT TIC. VE SANAYI AS	749.3
11	ALARKO CONTRACTING GROUP	508.7
12	LIMAK INSAAT SANAYI VE TICARET AS	415.0
13	ZHONGMEI ENGINEERING GROUP LTD.	392.4
14	SHANDONG HI-SPEED GROUP CO. LTD.	319.8
15	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	293.8
16	CHINA ENERGY ENGINEERING CORP. LTD.	271.9
17	CONSOLIDATED CONTRACTORS GROUP	259.9
18	WSP GLOBAL INC.	233.8
19	CITIC CONSTRUCTION CO. LTD.	217.0
20	CHINA WU YI CO. LTD.	216.4
21	THE ARAB CONTRACTORS CO. (OSMAN AHMED OSMAN)	210.7
22	POLAT YOL YAPI SAN. VE TIC. AS	207.7
23	CGCOC GROUP CO. LTD.	195.6
24	KOLIN INSAAT TURIZM SANAYI VE TICARET AS	195.4
25	XPCC CONSTRUCTION & ENGINEERING (GROUP) CO. LTD.	181.7

Top International Design Firms

HIGHWAYS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	1,053.7
2	AECOM	852.1
3	JACOBS	537.3
4	SNC-LAVALIN INC.	478.0
5	EGIS	415.2
6	ARCADIS NV/CALLISON RTKL	351.1
7	STANTEC INC.	306.4
8	DAR GROUP	230.6
9	ARUP GROUP LTD.	211.5
10	RAMBOLL GROUP A/S	188.0
11	SURBANA JURONG PRIVATE LTD.	183.2
12	PARSONS CORP.	145.8
13	MOTT MACDONALD	137.0
14	EXP	125.4
15	AURECON	112.1
16	AFRY	103.4
17	CTI ENGINEERING GROUP	76.9
18	HATCH LTD.	73.0
19	TETRA TECH INC.	72.0
20†	TPF SA	57.3
21	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	44.2
22	KHATIB & ALAMI	30.3
23	CDM SMITH	28.4
24	ORIENTAL CONSULTANTS GLOBAL	21.6
25	TECNICA Y PROYECTOS SA (TYPESA)	20.8

MARINE AND PORT FACILITIES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	4,584.1
2	POWER CONSTRUCTION CORP. OF CHINA	726.5
3	PENTA-OCEAN CONSTRUCTION CO. LTD.	442.0
4	OBAYASHI CORP.	318.0
5	CHINA RAILWAY CONSTRUCTION CORP. LTD.	268.0
6	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	214.3
7	AFCONS INFRASTRUCTURE LTD.	181.5
8	ILK CONSTRUCTION	137.3
9	GRUPO ACS/HOCHTIEF	112.0
10	PER AARSLEFF HOLDING A/S	111.1
11	ENKA INSAAT VE SANAYI AS	87.4
12	STFA CONSTRUCTION GROUP	85.0
13	CHINA RAILWAY GROUP LTD.	49.9
14	SKANSKA AB	49.3
15	KIEWIT CORP.	46.9
16	BAUER AG	41.2
17	WEEKS MARINE INC.	35.7
18	CHINA ENERGY ENGINEERING CORP. LTD.	34.6
19	ITD CEMENTATION INDIA LTD.	32.5
20	CHINA NATIONAL COMPLETE PLANT IMP. & EXP. GROUP	22.3
21	DL E&C CO. LTD.	20.7
22	MANSON CONSTRUCTION CO.	13.1
23	KAJIMA CORP.	12.1
24	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	11.7
25	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	11.4

MARINE AND PORT FACILITIES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	376.7
2	WSP GLOBAL INC.	81.7
3	ROYAL HASKONINGDHV	75.8
4	AECOM	73.7
5	JACOBS	72.6
6†	RAMBOLL GROUP A/S	34.0
7	KHATIB & ALAMI	30.4
8	HATCH LTD.	29.0
9	ARTELIA	25.1
10	MOTT MACDONALD	25.0
11	WORLEY LTD.	22.3
12	DAR GROUP	21.5
13	ARUP GROUP LTD.	20.5
14	STANTEC INC.	20.1
15	MOFFATT & NICHOL	18.4
16	TETRA TECH INC.	17.0
17	SENER GRUPO DE INGENIERIA SA	16.9
18	TECNICA Y PROYECTOS SA (TYPESA)	16.0
19	EGG ENGINEERING CONSULTANTS GROUP SA	13.9
20	SNC-LAVALIN INC.	13.0
21	ORIENTAL CONSULTANTS GLOBAL	12.2
22	KIEWIT CORP.	12.0
23	ARCADIS NV/CALLISON RTKL	10.6
24	NIPPON KOEI GROUP	10.4
25	EGIS	8.7

*BASED ON 2021 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.
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† DENOTES WHERE COWI A/S WOULD HAVE RANKED. COWI WAS LEFT OFF DUE TO AN ERROR ON THEIR SURVEY.

Top International Contractors

AIRPORTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	1,370.0
2	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	1,061.8
3	LIMAK INSAAT SANAYI VE TICARET AS	978.0
4	BECHTEL	479.6
5	SKANSKA AB	474.8
6	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	426.9
7	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	404.5
8	POWER CONSTRUCTION CORP. OF CHINA	395.5
9	TAV CONSTRUCTION	342.6
10	CHINA NATIONAL AERO-TECHNOLOGY INT'L ENG'G CORP.	200.3
11	TAISEI CORP.	172.0
12	CHINA NATIONAL MACHINERY INDUSTRY CORP.	159.7
13	WSP GLOBAL INC.	154.5
14	CONSOLIDATED CONTRACTORS GROUP	142.3
15	YUNNAN CONST. AND INVEST. HOLDING GRP. CO. LTD.	112.0
16	SACYR	107.2
17	IC ICTAS INSAAT SANAYI VE TICARET AS	97.4
18	SUMMA TURIZM YATIRIMCILIGI AS	85.8
19	ENKA INSAAT VE SANAYI AS	84.7
20	CHINA RAILWAY GROUP LTD.	84.5
21	CHINA RAILWAY CONSTRUCTION CORP. LTD.	84.0
22	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	77.8
23	ZHONGMEI ENGINEERING GROUP LTD.	70.0
24	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	61.4
25	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	38.7

MASS TRANSIT AND RAIL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	4,566.8
2	CHINA RAILWAY GROUP LTD.	3,956.6
3	CHINA RAILWAY CONSTRUCTION CORP. LTD.	3,904.0
4	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	3,809.9
5	SKANSKA AB	1,721.3
6	BECHTEL	1,390.2
7	WEBUILD SPA	1,327.2
8	YAPI MERKEZI INSAAT VE SANAYI AS	1,209.9
9	OBAYASHI CORP.	1,155.0
10	POWER CONSTRUCTION CORP. OF CHINA	693.6
11	OHLA	486.1
12	SACYR	433.0
13	GULERMAK	351.1
14	GHELLA SPA	334.0
15	SHANGHAI URBAN CONSTRUCTION (GROUP) CORP.	295.9
16	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	243.7
17	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	232.1
18	IMPRESA PIZZAROTTI & C. SPA	228.8
19	KIEWIT CORP.	197.2
20	GS ENGINEERING & CONSTRUCTION	191.1
21	WSP GLOBAL INC.	188.5
22	LARSEN & TOUBRO LTD.	165.9
23	CHINA NATIONAL MACHINERY INDUSTRY CORP.	163.1
24	SHIMIZU CORP.	139.9
25	CONSOLIDATED CONTRACTORS GROUP	132.8

Top International Design Firms

AIRPORTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	DAR GROUP	227.7
2	AECOM	154.6
3	WSP GLOBAL INC.	127.4
4	ARUP GROUP LTD.	123.0
5	SNC-LAVALIN INC.	100.8
6	EGIS	58.8
7	JACOBS	53.6
8	MOTT MACDONALD	50.4
9	MEINHARDT GROUP INTERNATIONAL	42.5
10	STANTEC INC.	37.9
11	ROYAL HASKONINGDHV	32.7
12	RAMBOLL GROUP A/S	32.1
13	AFRY	23.4
14	TECNICA Y PROYECTOS SA (TYPESA)	16.8
15	NIPPON KOEI GROUP	13.1
16	SURBANA JURONG PRIVATE LTD.	10.2
17	ARCADIS NV/CALLISON RTKL	9.5
18†	THORNTON TOMASETTI	7.2
19	INGENIERIA Y ECONOMIA DEL TRANSPORTE SA (INECO)	7.2
20	MICHAEL BAKER INTERNATIONAL	6.8
21	ORIENTAL CONSULTANTS GLOBAL	6.8
22	CHINA NATIONAL MACHINERY INDUSTRY CORP.	6.4
23	GHAFFARI ASSOCIATES LLC	6.0
24	EXP	5.1
25	ASSYSTEM	5.0

MASS TRANSIT AND RAIL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	1,041.8
2	SNC-LAVALIN INC.	852.5
3	SYSTRA	580.0
4	AECOM	555.8
5	JACOBS	474.7
6	ARCADIS NV/CALLISON RTKL	437.0
7	MOTT MACDONALD	425.8
8	ARUP GROUP LTD.	225.3
9	HATCH LTD.	189.0
10	EGIS	178.4
11	DAR GROUP	163.5
12	ORIENTAL CONSULTANTS GLOBAL	144.1
13†	HDR	128.1
14	STANTEC INC.	115.5
15	TECNICA Y PROYECTOS SA (TYPESA)	95.8
16	SENER GRUPO DE INGENIERIA SA	92.1
17	RAMBOLL GROUP A/S	89.2
18	PARSONS CORP.	88.7
19	SURBANA JURONG PRIVATE LTD.	86.5
20	IDOM	72.8
21	AFRY	71.0
22	TPF SA	68.2
23	NIPPON KOEI GROUP	65.8
24	CHINA RAILWAY DESIGN CORP.	55.6
25	SETEC	51.8

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† DENOTES WHERE COWI A/S WOULD HAVE RANKED. COWI WAS LEFT OFF DUE TO AN ERROR ON THEIR SURVEY.

Top International Contractors

BRIDGES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	727.6
2	GRUPO ACS/HOCHTIEF	556.0
3	CHINA RAILWAY CONSTRUCTION CORP. LTD.	519.0
4	SKANSKA AB	477.6
5	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	437.9
6	DL E&C CO. LTD.	176.2
7	OHLA	176.2
8	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	173.8
9	WSP GLOBAL INC.	120.6
10	YAPI MERKEZI INSAAT VE SANAYI AS	110.8
11	BAUER AG	107.3
12	FLUOR	101.3
13	WEBUILD SPA	94.3
14	CHINA RAILWAY GROUP LTD.	91.7
15	NATA INSAAT TURZ. TASIMACILIK TIC. VE SAN. AS	83.0
16	AFCONS INFRASTRUCTURE LTD.	62.1
17	SOUTHLAND HOLDINGS LLC	59.0
18	PCL CONSTRUCTION	53.9
19	GS ENGINEERING & CONSTRUCTION	51.5
20	SACYR	49.5
21	KIEWIT CORP.	45.2
22	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	35.3
23	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	34.4
24	ZHEJIANG COMMUNICATIONS CONSTR. GROUP CO. LTD.	33.2
25	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	27.3

Top International Design Firms

BRIDGES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	269.2
2	AECOM	128.4
3	DAR GROUP	127.8
4†	SNC-LAVALIN INC.	78.2
5	SYSTRA	73.0
6	STANTEC INC.	70.5
7	MOTT MACDONALD	42.7
8	RAMBOLL GROUP A/S	37.6
9	EXP	36.3
10	CHODAI GROUP	34.9
11	TETRA TECH INC.	27.0
12	MORRISON HERSHFIELD	19.1
13	SURBANA JURONG PRIVATE LTD.	18.4
14	AFRY	17.5
15	PARSONS CORP.	15.6
16	ORIENTAL CONSULTANTS GLOBAL	15.2
17	EGIS	12.2
18	JACOBS	12.1
19	TECNICA Y PROYECTOS SA (TYPESA)	11.2
20	NIPPON KOEI GROUP	7.9
21	HDR	7.7
22	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	7.5
23	GRUPO ACS/HOCHTIEF	7.0
24	TPF SA	5.1
25	CHINA RAILWAY CONSTRUCTION CORP. LTD.	5.0

*BASED ON 2021 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 2021 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

†DENOTES WHERE COWI A/S WOULD HAVE RANKED. COWI WAS LEFT OFF DUE TO AN ERROR ON THEIR SURVEY.



MAJOR EXPANSION Intel's under-construction Fab 34 would double its Irish manufacturing space.

Meeting Chip Demand

Several projects would expand Intel's European production capacity

Intel Corp. is progressing on a \$12.6-billion project to expand its 360-acre Leixlip, Ireland, campus with a new semiconductor chip manufacturing plant known as a “fab,” and has announced plans to further expand its European Union manufacturing capability. German contractor Exyte GmbH is project lead for the Leixlip fab project, which started in 2019 and is expected to complete in 2023.

The tech manufacturer announced this year that it would invest another \$34.7 billion in a slate of projects to meet an expected increase in demand. The largest would be a \$17.9-billion fab in Magdeburg, Germany, which Intel says would support about 7,000 construction jobs once work begins in the first half of 2023. ■

By James Leggate

3.1%

The increase in global manufacturing output year over year in Q2 2022, according to the U.N. Industrial Development Organization

\$16.4 TRILLION

The value of world manufacturing net output in 2021, according to the World Bank

Hungary BMW Battery Assembly

German automaker BMW Group recently announced plans to build a high-voltage electric vehicle battery assembly plant at the same site in Debrecen, Hungary, where it is building another plant to produce electric Neue Klasse vehicles. The battery facility would supply the vehicle assembly plant. Construction of the first plant began over the summer. BMW says it expects to spend \$2.1 billion on the project. Production at both plants would begin in 2025.

Thailand Electric Vehicle Plant

Chinese electric vehicle maker BYD Co. is planning to build its first plant outside China on a 237-acre site in Rayong, Thailand. The plant would have an annual capacity of 150,000 EVs, which BYD plans to export throughout Southeast Asia and to Europe. Production is scheduled to begin in 2024.

Thailand Sony Semiconductor Fab

Sony Device Technology (Thailand) Co. Ltd., a unit of Japan-based tech manufacturer Sony Semiconductor Solutions Group, is building a new fab in Bang Kadi, Thailand. The plant would produce semiconductors for automotive image sensors and display devices. The project is expected to cost about \$63.5 million. Production is slated to begin in the first half of 2024.

Australia Vanadium Redox Battery Line

Austrian battery maker Enerox GmbH, better known as CellCube, is partnering with Australian clean energy storage firm North Harbour Clean Energy to build an assembly and manufacturing plant in eastern Australia to produce vanadium redox flow batteries. They are large battery storage systems that can be used for long duration storage of excess power from the grid. The partnership plans for its plant to have an initial production capacity of at least 40 MW/160 MWh, and is targeting an eventual annual capacity of 1,000 MW/8,000 MWh.

Top International Contractors

MANUFACTURING		
RANK	FIRM	REVENUE (\$ MIL.)*
1	EXYTE GMBH	4,238.2
2	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	2,080.0
3	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	1,498.7
4	SK ECOPLANT	727.7
5	SAMSUNG ENGINEERING CO. LTD.	698.4
6	TAKENAKA CORP.	647.0
7	HYUNDAI ENGINEERING CO. LTD.	594.6
8	SKANSKA AB	485.8
9	KAJIMA CORP.	480.7
10	EIFPAGE	475.0
11	GRUPO ACS/HOCHTIEF	465.0
12	SAMSUNG C&T CORP.	463.0
13	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	459.6
14	PER AARSLEFF HOLDING A/S	408.9
15	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	382.5
16	HOFFMAN CONSTRUCTION	371.0
17	WALBRIDGE	318.9
18	CTCI CORP.	318.7
19	BOUYGUES	279.0
20	KINDEN CORP.	259.0
21	LARSEN & TOUBRO LTD.	207.5
22	SHIMIZU CORP.	166.6
23	GS ENGINEERING & CONSTRUCTION	164.0
24	CHINA NATIONAL MACHINERY INDUSTRY CORP.	113.8
25	CHINA NATIONAL COMPLETE PLANT IMP. & EXP. GROUP	104.9
26	SENER GRUPO DE INGENIERIA SA	86.7
27	ALBERICI-FLINTCO	55.0
28	COMMERCIAL CONTRACTING CORP.	49.0
29	RIZZANI DE ECCHER SPA	43.6
30	OHLA	36.4
31	JIANGLIAN HEAVY INDUSTRY GROUP CO. LTD.	32.0
32	NORINCO INTERNATIONAL COOPERATION LTD.	29.5
33	RONCELLI INC.	26.0
34	RENAISSANCE CONSTRUCTION	24.6
35	CHINA METALLURGICAL GROUP CORP.	24.0
36	CHINA RAILWAY CONSTRUCTION CORP. LTD.	22.0
37	BAUER AG	20.8
38	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	20.1
39	ENKA INSAAT VE SANAYI AS	19.3
40	LENDLEASE	18.0
41	PENTA-OCEAN CONSTRUCTION CO. LTD.	17.1
42	SHANDONG HI-SPEED DEJIAN GROUP CO. LTD.	14.9
43	WSP GLOBAL INC.	13.8
44	RAMBOLL GROUP A/S	13.7
45	PCL CONSTRUCTION	10.2
46	ORASCOM CONSTRUCTION PLC	9.2
47	POSCO ENGINEERING & CONSTRUCTION	8.5
48	AECOM GROUP INC.	8.0
49	SALCEF GROUP SPA	7.6
50	BARTON MALOW HOLDINGS LLC	7.1

Top International Design Firms

MANUFACTURING		
RANK	FIRM	REVENUE (\$ MIL.)*
1	LARSEN & TOUBRO LTD.	440.6
2	EXYTE GMBH	246.7
3	WOOD	130.0
4	ARCADIS NV/CALLISON RTKL	120.6
5	WSP GLOBAL INC.	76.1
6	JACOBS	70.5
7	PM GROUP	41.0
8	SAMOO ARCHITECTS & ENGINEERS	37.5
9	SAMSUNG ENGINEERING CO. LTD.	35.6
10	RAMBOLL GROUP A/S	30.7
11	CTCI CORP.	22.6
12	BECA GROUP LTD.	21.8
13	AFRY	20.0
14	STANTEC INC.	19.8
15	ARUP GROUP LTD.	18.8
16	SK ECOPLANT	15.9
17	CENTURY 3 (SHANGHAI) INC.	15.0
18	SSOE GROUP	13.6
19	AURECON	13.1
20	SNC-LAVALIN INC.	9.1
21	BILFINGER TEBODIN	9.0
22	IDOM	8.6
23	ROYAL HASKONINGDHV	7.1
24	KAJIMA CORP.	6.5
25	SETEC	6.4
26	LEIDOS	6.1
27	MEINHARDT GROUP INTERNATIONAL	5.4
28	TETRA TECH INC.	5.0
29	GHAFARI ASSOCIATES LLC	4.8
30	CHINA NATIONAL MACHINERY INDUSTRY CORP.	4.5
31	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	4.3
32	DAR GROUP	4.2
33	EXP	4.1
34	AECOM	3.6
35	PCG PROFABRIL CONSULPLANO GLOBAL SA	3.4
36	FLUOR	2.8
37	IBI GROUP INC.	2.2
38	SENER GRUPO DE INGENIERIA SA	2.1
39	SABBOUR CONSULTING	2.0
40	JENSEN HUGHES	2.0
41	DEERNS	1.7
42	ARTELIA	1.6
43	AMG AL AMAR CONSULTING GROUP SA	1.6
44	SWECO AB	1.0
45	DORSCH HOLDING GMBH	0.7
46	ZUTARI (PTY) LTD.	0.7
47	SALAS O'BRIEN	0.6
48	KLEINFELDER	0.6
49	SIMPSON GUMPERTZ & HEGER	0.4
50	CECI ENGINEERING CONSULTANTS INC. TAIWAN	0.4

*BASED ON 2021 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 2021 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	2,317.0
2	FLUOR	2,102.1
3	DANIELI & C. O.M. SPA	2,005.0
4	CHINA METALLURGICAL GROUP CORP.	945.9
5	VINCI	804.0
6	STRABAG SE	723.3
7	GRUPO ACS/HOCHTIEF	629.0
8	ALBERICI-FLINTCO	522.8
9	RENAISSANCE CONSTRUCTION	422.1
10	LARSEN & TOUBRO LTD.	285.8
11	SKANSKA AB	283.4
12	SINOSTEEL EQUIPMENT & ENGINEERING CO. LTD.	283.3
13	EXYTE GMBH	277.6
14	EIFFAGE	270.0
15	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	238.0
16	CHINA RAILWAY GROUP LTD.	227.2
17	CHINA ENERGY ENGINEERING CORP. LTD.	219.2
18	KAJIMA CORP.	208.6
19	CHIYODA CORP.	172.3
20	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	164.3
21	GILBANE BUILDING CO.	156.4
22	GREENLAND INFRA. CONSTR. GROUP CO. LTD.	155.4
23	HASKELL	154.0
24	GRAY CONSTRUCTION	139.3
25	ESTA INSAAT SANAYI LOJISTIK VE DIS TICARET AS	123.9
26	SHIMIZU CORP.	108.1
27	YANJIAN GROUP CO. LTD.	105.9
28	BOUYGUES	103.0
29	ORASCOM CONSTRUCTION PLC	91.2
30	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	71.6
31	CHINA NATIONAL MACHINERY INDUSTRY CORP.	67.9
32	HYUNDAI ENGINEERING CO. LTD.	64.4
33	ANT YAPI INDUSTRY & TRADE INC.	63.0
34	ZHONGYIFENG CONSTRUCTION GROUP CO. LTD.	49.3
35	BAUER AG	49.2
36	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	47.8
37	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	46.0
38	CHINA TRIUMPH INTERNATIONAL ENGINEERING CO. LTD.	44.4
39	WSP GLOBAL INC.	36.9
40	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	32.8
41	TEPE INSAAT SANAYI AS	31.6
42	ILK CONSTRUCTION	28.4
43	DENNIS GROUP	27.1
44	CHINA ALUMINUM INTERNATIONAL ENG'G CORP. LTD.	26.2
45	NANTONG CONSTRUCTION GROUP CO. LTD.	23.2
46	DPR CONSTRUCTION	21.5
47	HANWHA ENGINEERING & CONSTRUCTION	20.6
48	SNC-LAVALIN INC.	20.1
49	HEBEI CONSTRUCTION GROUP CO. LTD.	19.6
50	ZHONGTIAN CONSTRUCTION GROUP CO. LTD.	19.3

Top International Design Firms

INDUSTRIAL PROCESS		
RANK	FIRM	REVENUE (\$ MIL. *)
1	JACOBS	718.6
2	HATCH LTD.	437.0
3	AFRY	357.0
4	FLUOR	329.1
5	WOOD	212.3
6	BECHTEL	171.0
7	SWECO AB	166.0
8	INTERTEK-PSI	158.1
9	PM GROUP	137.4
10	WORLEY LTD.	119.1
11	SNC-LAVALIN INC.	99.4
12	LARSEN & TOUBRO LTD.	95.7
13	WSP GLOBAL INC.	61.2
14	IPS-INTEGRATED PROJECT SERVICES LLC	55.0
15	IDOM	47.6
16	BILFINGER TEBODIN	45.1
17	AECOM	35.3
18	STANTEC INC.	35.2
19	DBA GROUP S.P.A.	33.1
20	RAMBOLL GROUP A/S	32.1
21	CRB	30.8
22	ARCADIS NV/CALLISON RTKL	28.9
23	BECA GROUP LTD.	26.7
24	EXYTE GMBH	25.2
25	PROGER SPA	20.4
26	ARTELIA	20.2
27	CHINA METALLURGICAL GROUP CORP.	17.4
28	GHD	16.8
29	AYESA	16.2
30	ARUP GROUP LTD.	15.6
31	TETRA TECH INC.	15.0
32	DAR GROUP	14.0
33	EHA CONSULTING ENGINEERS	13.8
34	DENNIS GROUP	13.5
35	KAJIMA CORP.	13.3
36	JENSEN HUGHES	12.6
37	HASKELL	12.5
38	MOTT MACDONALD	12.1
39	VEPICA GRUPO INTERNACIONAL SLU	12.0
40	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	10.0
41	PCG PROFABRIL CONSULPLANO GLOBAL SA	9.9
42	EXP	7.7
43	INGEROP	6.3
44	STELLAR	4.8
45	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	4.3
46	CHINA NERIN ENGINEERING CO. LTD	3.3
47	NIPPON KOEI GROUP	3.2
48	CHINA ALUMINUM INTERNATIONAL ENG'G CORP. LTD.	3.1
49	CHINA NATIONAL MACHINERY INDUSTRY CORP.	2.7
50	TPF SA	2.5

Top International Contractors

AUTO ASSEMBLY PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	HYUNDAI ENGINEERING CO. LTD.	594.6
2	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	396.5
3	WALBRIDGE	318.9
4	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	152.8
5	CHINA NATIONAL MACHINERY INDUSTRY CORP.	106.2
6	GRUPO ACS/HOCHTIEF	96.0
7	SHIMIZU CORP.	85.2
8	KAJIMA CORP.	70.2
9	LARSEN & TOUBRO LTD.	67.0
10	ALBERICI-FLINTCO	55.0

STEEL AND NON-FERROUS METALS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	BECHTEL	2,312.4
2	DANIELI & C. O.M. SPA	2,005.0
3	FLUOR	1,935.0
4	CHINA METALLURGICAL GROUP CORP.	893.0
5	SINOSTEEL EQUIPMENT & ENGINEERING CO. LTD.	283.3
6	LARSEN & TOUBRO LTD.	257.3
7	CHINA RAILWAY GROUP LTD.	227.2
8	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	164.3
9	YANJIAN GROUP CO. LTD.	84.4
10	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	81.9
11	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	45.0
12	GRUPO ACS/HOCHTIEF	35.0
13	BAUER AG	34.4
14	CHINA ALUMINUM INTERNATIONAL ENG'G CORP. LTD.	26.2
15	CITIC CONSTRUCTION CO. LTD.	15.6
16	SKANSKA AB	15.1
17	TIANYUAN CONSTRUCTION GROUP CO. LTD.	15.0
18	HYUNDAI ENGINEERING CO. LTD.	12.1
19	ZHONGTIAN CONSTRUCTION GROUP CO. LTD.	11.1
20	MATRIX SERVICE CO.	10.6

Top International Design Firms

AUTO ASSEMBLY PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LARSEN & TOUBRO LTD.	156.4
2	ARCADIS NV/CALLISON RTKL	74.2
3	WSP GLOBAL INC.	47.6
4	JACOBS	24.8
5	AFRY	10.5
6	SSOE GROUP	10.2
7	IDOM	8.6
8	STANTEC INC.	8.5
9	BILFINGER TEBODIN	6.5
10	LEIDOS	6.1

STEEL AND NON-FERROUS METALS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	HATCH LTD.	437.0
2	FLUOR	236.6
3	BECHTEL	142.6
4	LARSEN & TOUBRO LTD.	40.4
5	AECOM	31.1
6	IDOM	22.1
7	CHINA METALLURGICAL GROUP CORP.	17.4
8	AFRY	16.4
9	TETRA TECH INC.	12.0
10	VEPICA GRUPO INTERNACIONAL SLU	10.6
11	WORLEY LTD.	6.4
12	STANTEC INC.	6.3
13	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	4.3
14	WSP GLOBAL INC.	4.2
15	BILFINGER TEBODIN	3.9
16	CHINA NERIN ENGINEERING CO. LTD	3.3
17	CHINA ALUMINUM INTERNATIONAL ENG'G CORP. LTD.	3.1
18	EXP	2.6
19	TPF SA	2.5
20	CTCI CORP.	2.2

Top International Contractors

TELECOMMUNICATIONS		
RANK	FIRM	REVENUE (\$ MIL. **)
1	VINCI	2,956.0
2	GRUPO ACS/HOCHTIEF	2,130.0
3	BOUYGUES	433.0
4	FORTIS CONSTRUCTION INC.	346.0
5	DPR CONSTRUCTION	250.2
6	FLUOR	225.5
7	SKANSKA AB	184.5
8	ORASCOM CONSTRUCTION PLC	133.8
9	EXYTE GMBH	126.8
10	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	83.0
11	LENLEASE	74.0
12	KAJIMA CORP.	61.9
13	STO BUILDING GROUP INC.	55.0
14	EIFPAGE	50.0
15	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	44.3
16	CHINA ENERGY ENGINEERING CORP. LTD.	41.1
17	WEBUILD SPA	38.0
18	CHINA RAILWAY CONSTRUCTION CORP. LTD.	32.0
19	CHINA NATIONAL MACHINERY INDUSTRY CORP.	30.9
20	STRABAG SE	28.5
21	BAUER AG	28.0
22	BECHTEL	24.0
23	LARSEN & TOUBRO LTD.	13.4
24	SHAKER GROUP	12.8
25	ELECTRA LTD.	12.5

Top International Design Firms

TELECOMMUNICATIONS		
RANK	FIRM	REVENUE (\$ MIL. **)
1	ARUP GROUP LTD.	104.5
2	WSP GLOBAL INC.	80.0
3	HDR	52.2
4	BURNS & MCDONNELL	47.9
5	FUGRO NV	43.6
6	ROYAL HASKONINGDHV	39.3
7	BECHTEL	38.0
8	AECOM	34.4
9	PM GROUP	26.6
10	RAMBOLL GROUP A/S	26.3
11	DAR GROUP	20.1
12	ARCADIS NV/CALLISON RTKL	18.5
13	JACOBS	16.3
14	LARSEN & TOUBRO LTD.	13.4
15	TOWER ENGINEERING PROFESSIONALS	12.0
16	GENSLER	11.5
17	IDOM	11.0
18	DEERNS	10.2
19	AURECON	9.7
20	BLACK & VEATCH	8.9
21	STANTEC INC.	8.5
22	MEINHARDT GROUP INTERNATIONAL	8.4
23	SHEEHAN NAGLE HARTRAY ARCHITECTS LTD.	8.1
24	MORRISON HERSHFIELD	7.8
25	AFRY	6.0

MINING		
RANK	FIRM	REVENUE (\$ MIL. **)
1	GRUPO ACS/HOCHTIEF	1,523.0
2	NORINCO INTERNATIONAL COOPERATION LTD.	555.2
3	CHINA RAILWAY GROUP LTD.	533.5
4	CHINA NATIONAL MACHINERY INDUSTRY CORP.	307.8
5	CHINA RAILWAY CONSTRUCTION CORP. LTD.	143.0
6	KIEWIT CORP.	84.7
7	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	68.7
8	OHLA	60.5
9	WSP GLOBAL INC.	58.2
10	CHINA METALLURGICAL GROUP CORP.	56.2
11	GRANITE CONSTRUCTION INC.	46.0
12	WEBUILD SPA	43.8
13	SACYR	42.5
14	ANHUI SOGEOA FOREIGN ECON. CONSTRUCTION (GROUP)	21.9
15	SKANSKA AB	13.4

MINING		
RANK	FIRM	REVENUE (\$ MIL. **)
1	WORLEY LTD.	456.5
2	WSP GLOBAL INC.	195.7
3	STANTEC INC.	177.3
4	HATCH LTD.	130.0
5	SNC-LAVALIN INC.	60.0
6	WALDEMAR S. NELSON AND CO. INC.	27.4
7	AFRY	25.2
8	CHINA NERIN ENGINEERING CO. LTD	17.9
9	TETRA TECH INC.	17.0
10	IDOM	12.5
11	CHINA NATIONAL MACHINERY INDUSTRY CORP.	12.3
12	BARR ENGINEERING CO.	11.3
13	SURBANA JURONG PRIVATE LTD.	8.1
14	TPF SA	7.0
15	EXP	6.0

Top International Contractors

CHEMICALS (NON-PETROLEUM)		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	131.4
2	GRUPO ACS/HOCHTIEF	64.0
3	HYUNDAI ENGINEERING CO. LTD.	52.2
4	CHINA TRIUMPH INTERNATIONAL ENGINEERING CO. LTD.	44.4
5	SKANSKA AB	33.4
6	CHINA NATIONAL MACHINERY INDUSTRY CORP.	32.4
7	SHIMIZU CORP.	26.6
8	YANJIAN GROUP CO. LTD.	21.5
9	HANWHA ENGINEERING & CONSTRUCTION	20.6
10	SNC-LAVALIN INC.	15.7
11	WORLEY LTD.	15.1
12	BAUER AG	14.8
13	ENKA INSAAT VE SANAYI AS	7.4
14	KAJIMA CORP.	6.8
15	WSP GLOBAL INC.	5.4
16	SAMSUNG ENGINEERING CO. LTD.	4.7
17	BECHTEL	4.4
18	ZACHRY GROUP	3.9
19	JIANGSU SUZHONG CONSTRUCTION GROUP CO. LTD.	3.6
20	NANTONG CONSTRUCTION GROUP CO. LTD.	3.1

PHARMACEUTICALS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	491.0
2	EXYTE GMBH	276.5
3	SKANSKA AB	186.0
4	FLUOR	166.7
5	KAJIMA CORP.	84.9
6	DPR CONSTRUCTION	21.5
7	SHIMIZU CORP.	13.9
8	POND	8.1
9	IPS-INTEGRATED PROJECT SERVICES LLC	6.5
10	WSP GLOBAL INC.	4.6

FOOD & BEVERAGES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ALBERICI-FLINTCO	522.8
2	GILBANE BUILDING CO.	156.4
3	GREENLAND INFRA. CONSTR. GROUP CO. LTD.	155.4
4	HASKELL	154.0
5	GRAY CONSTRUCTION	139.3
6	KAJIMA CORP.	59.8
7	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	32.8
8	DENNIS GROUP	27.1
9	CHINA NATIONAL MACHINERY INDUSTRY CORP.	22.6
10	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	19.5

PULP & PAPER		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	22.9
2	SHIMIZU CORP.	7.5
3	WSP GLOBAL INC.	5.6
4	PCL CONSTRUCTION	4.7
5	CHINA NATIONAL MACHINERY INDUSTRY CORP.	0.7

Top International Design Firms

CHEMICALS (NON-PETROLEUM)		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WORLEY LTD.	112.6
2	AFRY	37.7
3	RAMBOLL GROUP A/S	22.9
4	LARSEN & TOUBRO LTD.	20.8
5	WSP GLOBAL INC.	19.5
6	BILFINGER TEBODIN	19.0
7	IDOM	9.0
8	MOTT MACDONALD	7.8
9	BECHTEL	4.7
10	SNC-LAVALIN INC.	4.7
11	DAR GROUP	3.8
12	ARTELIA	3.6
13	STANTEC INC.	3.5
14	ARCADIS NV/CALLISON RTKL	2.4
15	FLUOR	1.4
16	EXYTE GMBH	1.4
17	VEPICA GRUPO INTERNACIONAL SLU	1.3
18	CHINA NATIONAL MACHINERY INDUSTRY CORP.	1.3
19	TETRA TECH INC.	1.0
20	KAJIMA CORP.	0.9

PHARMACEUTICALS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	JACOBS	718.6
2	PM GROUP	120.5
3	SNC-LAVALIN INC.	90.1
4	FLUOR	89.6
5	IPS-INTEGRATED PROJECT SERVICES LLC	55.0
6	CRB	29.8
7	ARCADIS NV/CALLISON RTKL	23.4
8	EXYTE GMBH	22.5
9	AFRY	16.3
10	ARUP GROUP LTD.	15.6

FOOD & BEVERAGES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	AFRY	36.9
2	LARSEN & TOUBRO LTD.	24.9
3	PM GROUP	16.8
4	DENNIS GROUP	13.5
5	HASKELL	12.5
6	STANTEC INC.	9.7
7	WSP GLOBAL INC.	8.3
8	KAJIMA CORP.	4.9
9	STELLAR	4.8
10	SNC-LAVALIN INC.	4.6

PULP & PAPER		
RANK	FIRM	REVENUE (\$ MIL.**)
1	AFRY	225.5
2	BILFINGER TEBODIN	7.0
3	WSP GLOBAL INC.	3.9
4	STANTEC INC.	3.2
5	ARCADIS NV/CALLISON RTKL	3.1

Top International Contractors

SEMICONDUCTOR		
RANK	FIRM	REVENUE (\$ MIL.**)
1	EXYTE GMBH	4,238.2
2	PER AARSLEFF HOLDING A/S	404.3
3	SKANSKA AB	375.6
4	CTCI CORP.	276.7
5	CHINA NATIONAL COMPLETE PLANT IMP. & EXP. GROUP	102.2

ELECTRONIC ASSEMBLY		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SAMSUNG ENGINEERING CO. LTD.	698.4
2	GRUPO ACS/HOCHTIEF	290.0
3	GS ENGINEERING & CONSTRUCTION	164.0
4	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	148.2
5	LARSEN & TOUBRO LTD.	58.9

AEROSPACE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	KAJIMA CORP.	92.9
2	SENER GRUPO DE INGENIERIA SA	86.7
3	SKANSKA AB	37.1
4	BAUER AG	5.2
5	HASKELL	5.2

TRANSMISSION LINES & CABLING		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	83.0
2	CHINA NATIONAL MACHINERY INDUSTRY CORP.	30.7
3	GRUPO ACS/HOCHTIEF	14.0
4	CHINA RAILWAY CONSTRUCTION CORP. LTD.	11.0
5	SHANDONG ZIJIAN CONSTRUCTION GROUP CO. LTD.	10.5

TOWERS & ANTENNAE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LENDLEASE	73.6
2	BECHTEL	23.6
3	CHINA ENERGY ENGINEERING CORP. LTD.	20.2
4	BAUER AG	19.6
5	LARSEN & TOUBRO LTD.	13.4

DATA CENTERS & WEB HOTELS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	2,116.0
2	FORTIS CONSTRUCTION INC.	346.0
3	DPR CONSTRUCTION	250.2
4	FLUOR	225.5
5	SKANSKA AB	184.5
6	EXYTE GMBH	126.8
7	KAJIMA CORP.	61.9
8	STO BUILDING GROUP INC.	55.0
9	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	40.6
10	WEBUILD SPA	38.0

Top International Design Firms

SEMICONDUCTOR		
RANK	FIRM	REVENUE (\$ MIL.**)
1	EXYTE GMBH	246.7
2	LARSEN & TOUBRO LTD.	58.9
3	JACOBS	37.8
4	CTCI CORP.	22.0
5	DAR GROUP	2.7

ELECTRONIC ASSEMBLY		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LARSEN & TOUBRO LTD.	137.5
2	SAMSUNG ENGINEERING CO. LTD.	35.6
3	PM GROUP	35.2
4	JACOBS	7.9
5	ROYAL HASKONINGDHV	7.1

AEROSPACE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LARSEN & TOUBRO LTD.	60.9
2	ARCADIS NV/CALLISON RTKL	44.0
3	SNC-LAVALIN INC.	9.1
4	STANTEC INC.	6.6
5	KAJIMA CORP.	5.7

TRANSMISSION LINES & CABLING		
RANK	FIRM	REVENUE (\$ MIL.**)
1	BECHTEL	37.6
2	DAR GROUP	7.6
3	MORRISON HERSHFIELD	3.2
4	WSP GLOBAL INC.	2.5
5	ARCADIS NV/CALLISON RTKL	2.2

TOWERS & ANTENNAE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	LARSEN & TOUBRO LTD.	13.4
2	RAMBOLL GROUP A/S	8.9
3	MORRISON HERSHFIELD	4.5
4	ROYAL HASKONINGDHV	0.7
5	EMPRESARIOS AGRUPADOS INTERNACIONAL SA	0.5

DATA CENTERS & WEB HOTELS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARUP GROUP LTD.	104.5
2	WSP GLOBAL INC.	77.0
3	HDR	52.2
4	BURNS & MCDONNELL	47.7
5	ROYAL HASKONINGDHV	38.6
6	AECOM	34.4
7	PM GROUP	26.6
8	RAMBOLL GROUP A/S	17.4
9	ARCADIS NV/CALLISON RTKL	16.3
10	JACOBS	16.3

**Eastern Europe
 Big Boost Seen
 In Nuclear Power**

Bechtel confirmed Nov. 30 that it submitted a proposal with Westinghouse to build a new AP1000 nuclear power unit in the Czech Republic, with three more reactors possible. French utility EDF and Korea Hydro & Nuclear Power also submitted proposals for the project, to be built at Dukovany, Czech utility CEZ said. Final bids are due September 2023 and contracts should be finalized in 2024, Tomáš Pleskač, a CEZ official, said in a statement. Construction of the 1,200-MW unit should be completed in 2036, with another also planned. They will replace Soviet designed units that will be decommissioned. CEZ excluded Chinese and Russian bids on security grounds.

The Polish government also selected the Westinghouse reactor design to build the country's first nuclear fleet, which includes up to nine units. Construction will begin in 2026. Westinghouse said it signed agreements with 22 companies in Poland related to construction of reactors there and at other potential Central Europe sites. It also committed to a major engineering center in Poland and investments to support development of the country's nuclear power workforce.

Construction of two nuclear units in Hungary by Russian owned energy firm Rosatom also is set to start, with operation to begin by 2030, Hungary Foreign Minister Peter Szijarto said. The units are expected to cost \$12.4 billion, with Russia financing \$10 billion, media reports said. Russia's nuclear industry was not included in EU sanctions after its invasion of Ukraine.

By Mary B. Powers



PLANNED U.K.'s government will replace a China state-owned firm as co-owner of the entity developing the estimated \$30-billion Sizewell C nuclear plant, set to be built on the England coast.

UK Is Nuclear Investor

Government takes 50% stake in firm set to build 3.3 GW Sizewell C project

The U.K. government on Nov. 29 bought out the Chinese interest in the planned Sizewell C nuclear power plant while taking a 50% stake in the firm developing the 3.3-GW facility in England, with an \$815-million investment. French state utility EDF is company co-owner, with other backers being sought to fund the estimated \$30-billion project. China General Nuclear Corp. was part of a 2016 deal for it to invest in the Hinkley Point C nuclear plant, now being built by EDF, to secure government approval. The Chinese firm also was offered the prospect to build another plant using its own reactor design, but the U.K. political climate has moved against such close links on critical infrastructure. Subject to approvals, Sizewell C will be the U.K.'s first direct investment in a nuclear plant since Sizewell B, which began generating in 1995. Knowledge and supply chain transfer from Hinkley Point C to Sizewell C "will be vital to deliver cost and efficiency savings," says Christophe Junillon, a senior director at engineer Atkins, part of design-builder SNC Lavalin Group. ■

By Peter Reina

14.5
 Gigawatts of global wind and solar power procured by top corporate buyers
 Amazon, Microsoft and Meta in 2021
 -BloombergNEF



**CHINA
 GIANT WORLD-LEADING WIND TURBINES EMERGING**

China Three Gorges Corp. and Chinese manufacturing partner Goldwind said Nov. 25 they have built the world's largest offshore wind turbine, a 16-MW unit that has a 252-m-dia rotor that generates 34.2 kWh of power in a full rotating turn. Chinese developer MingYang also plans to roll out a 16-MW turbine. The firm's planned overseas expansion could drive turbine sizes higher and wind farm development prices lower, the U.S. Institute for Energy Economics and Financial Analysis said. Meanwhile, Chinese shipbuilder CSSC Haizhuang said Nov. 29 it would unveil an 18-MW unit in mid-December that is said to have a 260-m-dia rotor. Goldwind said Chinese turbine makers are now exceeding units produced by industry leads GE, Siemens Gamesa and Vestas.

IMAGES: EDF, TOP; GOLDWIND, BOTTOM

Top International Contractors

POWER		
RANK	FIRM	REVENUE (\$ MIL. *)
1	POWER CONSTRUCTION CORP. OF CHINA	9,322.5
2	VINCI	5,656.0
3	CHINA ENERGY ENGINEERING CORP. LTD.	3,798.9
4	SHANGHAI ELECTRIC GROUP CO. LTD.	2,366.9
5	CHINA NATIONAL MACHINERY INDUSTRY CORP.	1,833.5
6	LARSEN & TOUBRO LTD.	1,409.0
7	EIFFAGE	1,290.0
8	BOUYGUES	1,251.0
9	SAMSUNG C&T CORP.	1,010.0
10	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	875.6
11	CHINA ELECTRIC POWER EQUIPMENT AND TECH. CO. LTD.	844.0
12	CHINA ZHONGYUAN ENGINEERING CORP.	766.7
13	HARBIN ELECTRIC INTERNATIONAL CO. LTD.	716.5
14	GRUPO ACS/HOCHTIEF	658.6
15	ROYAL BOSKALIS WESTMINSTER NV	610.0
16	PCL CONSTRUCTION	597.0
17	DONGFANG ELECTRIC CORP.	596.3
18	WOOD	590.7
19	RENAISSANCE CONSTRUCTION	582.8
20	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	559.0
21	SAIPEM SPA	553.0
22	SNC-LAVALIN INC.	524.1
23	ENKA INSAAT VE SANAYI AS	505.1
24	TBEA CO. LTD.	504.2
25	CALIK ENERJI SANAYI VE TICARET AS	461.0
26	FERROVIAL	377.8
27	SKANSKA AB	362.4
28	THE ARAB CONTRACTORS CO. (OSMAN AHMED OSMAN)	331.6
29	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	325.6
30	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	315.4
31	POSCO ENGINEERING & CONSTRUCTION	301.6
32	HYUNDAI ENGINEERING CO. LTD.	272.1
33	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	255.6
34	BLACK & VEATCH	247.8
35	SHAPOORJI PALLONJI & CO. PRIVATE LTD.	244.0
36	SHANDONG ELECTRIC POWER ENG'G CONSULTING	239.6
37	MOTA-ENGIL	230.0
38	VAN OORD NV	225.9
39	NORINCO INTERNATIONAL COOPERATION LTD.	219.5
40	KIEWIT CORP.	210.3
41	CHINA METALLURGICAL GROUP CORP.	167.7
42	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	165.1
43	CHINA RAILWAY CONSTRUCTION CORP. LTD.	164.0
44	XIAN ELECTRIC ENGINEERING CO. LTD.	155.9
45	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	146.8
46	PETROFAC LTD.	137.4
47	BAUER AG	132.7
48	CTCI CORP.	127.7
49	BURNS & MCDONNELL	117.3
50	UNITED ENGINEERS & CONSTRUCTORS INC.	116.6

Top International Design Firms

POWER		
RANK	FIRM	REVENUE (\$ MIL. *)
1	POWER CONSTRUCTION CORP. OF CHINA	1,328.6
2	CHINA ENERGY ENGINEERING CORP. LTD.	1,277.0
3	WSP GLOBAL INC.	468.1
4	WORLEY LTD.	457.7
5	JACOBS	418.5
6	FUGRO NV	411.3
7	TRACTEBEL	333.9
8	AFRY	326.0
9	WOOD	241.7
10	SNC-LAVALIN INC.	237.3
11	STANTEC INC.	229.3
12	ARCADIS NV/CALLISON RTKL	229.0
13	TETRA TECH INC.	164.0
14	ASSYSTEM	134.0
15	SWECO AB	125.0
16	FICHTNER GROUP	124.2
17	BLACK & VEATCH	123.7
18	MOTT MACDONALD	117.5
19	DOHWA ENGINEERING CO. LTD.	106.1
20	HATCH LTD.	104.0
21	RAMBOLL GROUP A/S	98.4
22	AECOM	97.0
23	SURBANA JURONG PRIVATE LTD.	92.5
24	CHINA NATIONAL MACHINERY INDUSTRY CORP.	73.3
25	SARGENT & LUNDY	71.2
26	IDOM	61.5
27	ILF CONSULTING ENGINEERS	60.5
28	KEPCO ENGINEERING & CONSTRUCTION CO. INC.	51.1
29	BURNS & MCDONNELL	49.2
30	EMPRESARIOS AGRUPADOS INTERNACIONAL SA	44.0
31	DAR GROUP	43.2
32	EGIS	38.4
33	ENERGOPROJEKT HOLDING PLC	36.4
34	COWI A/S	35.6
35	ARTELIA	34.5
36	CISPDR CORPORATION	34.4
37	NIPPON KOEI GROUP	29.9
38	KHATIB & ALAMI	28.8
39	ARUP GROUP LTD.	26.9
40	KIEWIT CORP.	26.8
41	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	25.2
42	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	24.0
43	TECNICA Y PROYECTOS SA (TYPSA)	23.9
44	POWER ENGINEERS INC.	23.6
45	SETEC	21.6
46	ROYAL HASKONINGDHV	20.8
47	LOMBARDI GROUP	20.4
48	GHD	16.9
49	PETROFAC LTD.	15.6
50	AURECON	15.4

*BASED ON 2021 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 2021 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	2,999.2
2	CHINA ENERGY ENGINEERING CORP. LTD.	1,134.7
3	SHANGHAI ELECTRIC GROUP CO. LTD.	952.5
4	CHINA NATIONAL MACHINERY INDUSTRY CORP.	769.3
5	HARBIN ELECTRIC INTERNATIONAL CO. LTD.	695.9
6	ENKA INSAAT VE SANAYI AS	436.1
7	POSCO ENGINEERING & CONSTRUCTION	300.7
8	HYUNDAI ENGINEERING CO. LTD.	260.1
9	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	259.7
10	BLACK & VEATCH	246.9
11	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	236.5
12	CALIK ENERJI SANAYI VE TICARET AS	221.0
13	DONGFANG ELECTRIC CORP.	220.0
14	NORINCO INTERNATIONAL COOPERATION LTD.	153.0
15	CTCI CORP.	125.1
16	BURNS & MCDONNELL	110.6
17	CHINA METALLURGICAL GROUP CORP.	107.7
18	SNC-LAVALIN INC.	94.0
19	GRUPO ACS/HOCHTIEF	67.0
20	SKANSKA AB	55.5
21	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	55.1
22	CITIC CONSTRUCTION CO. LTD.	52.5
23	OBAYASHI CORP.	40.0
24	LARSEN & TOUBRO LTD.	37.0
25	WSP GLOBAL INC.	30.7

NUCLEAR PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA ZHONGYUAN ENGINEERING CORP.	766.7
2	UNITED ENGINEERS & CONSTRUCTORS INC.	116.6
3	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	104.4
4	CHINA ENERGY ENGINEERING CORP. LTD.	65.8
5	FLUOR	53.2
6	SNC-LAVALIN INC.	18.5
7	BAUER AG	13.3
8	ENKA INSAAT VE SANAYI AS	3.7
9	WSP GLOBAL INC.	2.2
10	SKANSKA AB	2.0

Top International Design Firms

FOSSIL FUEL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA ENERGY ENGINEERING CORP. LTD.	487.5
2	BLACK & VEATCH	109.3
3	WSP GLOBAL INC.	57.9
4	AFRY	48.6
5	WORLEY LTD.	44.3
6	FICHTNER GROUP	42.4
7	TRACTEBEL	41.5
8	BURNS & MCDONNELL	34.3
9	CHINA NATIONAL MACHINERY INDUSTRY CORP.	30.8
10	STANTEC INC.	25.5
11	SARGENT & LUNDY	20.0
12	IDOM	19.4
13	MOTT MACDONALD	17.3
14	AECOM	15.6
15	SNC-LAVALIN INC.	14.4
16	POWER CONSTRUCTION CORP. OF CHINA	12.2
17	EMPRESARIOS AGRUPADOS INTERNACIONAL SA	9.3
18	CTCI CORP.	8.0
19	NIPPON KOEI GROUP	7.2
20	JACOBS	6.9
21	ARTELIA	6.5
22	ARUP GROUP LTD.	3.8
23	KIEWIT CORP.	3.5
24	GEOSYNTEC CONSULTANTS	3.0
25	KHATIB & ALAMI	2.2

NUCLEAR PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	JACOBS	190.0
2	SNC-LAVALIN INC.	149.4
3	ASSYSTEM	128.0
4	TRACTEBEL	57.5
5	KEPCO ENGINEERING & CONSTRUCTION CO. INC.	49.8
6	WORLEY LTD.	49.4
7	AFRY	45.1
8	SARGENT & LUNDY	38.7
9	EGIS	36.8
10	EMPRESARIOS AGRUPADOS INTERNACIONAL SA	26.5

**BASED ON 2021 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 2021 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	POWER CONSTRUCTION CORP. OF CHINA	3,585.2
2	CHINA ENERGY ENGINEERING CORP. LTD.	1,136.0
3	THE ARAB CONTRACTORS CO. (OSMAN AHMED OSMAN)	328.0
4	CHINA NATIONAL MACHINERY INDUSTRY CORP.	242.3
5	DONGFANG ELECTRIC CORP.	238.5
6	KIEWIT CORP.	194.1
7	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	169.7
8	SKANSKA AB	74.4
9	HUNAN CONSTRUCTION ENGINEERING GROUP CO. LTD.	69.8
10	BARNARD CONSTRUCTION CO. INC.	57.7
11	BAUER AG	39.8
12	SHIMIZU CORP.	35.7
13	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	21.8
14	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	16.2
15	LARSEN & TOUBRO LTD.	13.5
16	HYUNDAI ENGINEERING CO. LTD.	11.9
17	CHINA RAILWAY CONSTRUCTION CORP. LTD.	11.0
18	ANHUI SOGEOA FOREIGN ECON. CONSTRUCTION (GROUP)	8.4
19	CGCOC GROUP CO. LTD.	8.1
20	TBEA CO. LTD.	7.6

COGENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	203.1
2	PCL CONSTRUCTION	126.1
3	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	83.9
4	SENER GRUPO DE INGENIERIA SA	75.5
5	CHINA METALLURGICAL GROUP CORP.	37.6
6	CHINA ENERGY ENGINEERING CORP. LTD.	22.1
7	WEBUILD SPA	21.0
8	SACYR	5.3
9	QINGJIAN GROUP CO. LTD.	3.8
10	CHINA NATIONAL MACHINERY INDUSTRY CORP.	3.6

OPERATIONS & MAINTENANCE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CALIK ENERJI SANAYI VE TICARET AS	158.0
2	CHINA ENERGY ENGINEERING CORP. LTD.	96.7
3	SKANSKA AB	86.0
4	POWER CONSTRUCTION CORP. OF CHINA	59.8
5	DAY & ZIMMERMANN	40.6
6	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	31.6
7	CHINA NATIONAL MACHINERY INDUSTRY CORP.	19.1
8	PCL CONSTRUCTION	10.1
9	JINGOLI - DCO	7.5
10	WEBUILD SPA	6.3

Top International Design Firms

HYDRO PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	TRACTEBEL	138.6
2	POWER CONSTRUCTION CORP. OF CHINA	107.9
3	TETRA TECH INC.	77.0
4	STANTEC INC.	68.9
5	AFRY	66.4
6	SURBANA JURONG PRIVATE LTD.	62.1
7	HATCH LTD.	62.0
8	MOTT MACDONALD	20.8
9	KIEWIT CORP.	20.1
10	WSP GLOBAL INC.	17.7
11	NIPPON KOEI GROUP	17.0
12	CISPDR CORPORATION	15.7
13	ARTELIA	15.1
14	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	13.6
15	FICHTNER GROUP	11.1
16	DLZ CORP.	10.8
17	CHINA NATIONAL MACHINERY INDUSTRY CORP.	9.7
18	IDOM	6.4
19	WORLEY LTD.	6.0
20	SNC-LAVALIN INC.	5.9

COGENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WORLEY LTD.	64.3
2	AFRY	48.9
3	RAMBOLL GROUP A/S	42.0
4	FICHTNER GROUP	23.0
5	WSP GLOBAL INC.	16.9
6	JACOBS	6.7
7	STANTEC INC.	6.1
8	ROYAL HASKONINGDHV	4.0
9	ASSOCIATED CONSULTING ENGINEERS	2.0
10	TRACTEBEL	1.4

OPERATIONS & MAINTENANCE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	JACOBS	56.9
2	AECOM	9.5
3	SURBANA JURONG PRIVATE LTD.	9.5
4	WSP GLOBAL INC.	9.0
5	STANTEC INC.	8.4
6	AFRY	7.3
7	KHATIB & ALAMI	5.1
8	DORSCH HOLDING GMBH	4.2
9	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	2.5
10	DAR GROUP	2.1

*BASED ON 2021 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 2021 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.	1,175.4
2	CHINA ELECTRIC POWER EQUIPMENT AND TECH. CO. LTD.	840.8
3	POWER CONSTRUCTION CORP. OF CHINA	722.5
4	TBEA CO. LTD.	441.7
5	SNC-LAVALIN INC.	411.5
6	GRUPO ACS/HOCHTIEF	378.4
7	CHINA NATIONAL MACHINERY INDUSTRY CORP.	317.7
8	CHINA ENERGY ENGINEERING CORP. LTD.	222.1
9	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	219.9
10	XIAN ELECTRIC ENGINEERING CO. LTD.	155.9
11	SKANSKA AB	141.5
12	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE)	114.0
13	CALIK ENERJI SANAYI VE TICARET AS	76.0
14	BAUER AG	66.3
15	CHINA GENERAL TECHNOLOGY (GROUP) HOLDING CO. LTD.	59.0
16	OHLA	43.8
17	WORLEY LTD.	43.5
18	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	43.4
19	WSP GLOBAL INC.	31.9
20	CHINA RAILWAY CONSTRUCTION CORP. LTD.	28.0
21	PCL CONSTRUCTION	21.3
22	HUNAN CONSTRUCTION ENGINEERING GROUP CO. LTD.	18.3
23	KIEWIT CORP.	15.1
24	HARBIN ELECTRIC INTERNATIONAL CO. LTD.	14.7
25	HEBEI CONSTRUCTION GROUP CO. LTD.	13.3

WIND GENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA ENERGY ENGINEERING CORP. LTD.	605.6
2	POWER CONSTRUCTION CORP. OF CHINA	257.3
3	DONGFANG ELECTRIC CORP.	137.8
4	PETROFAC LTD.	137.4
5	GRUPO ACS/HOCHTIEF	96.0
6	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	89.8
7	NORINCO INTERNATIONAL COOPERATION LTD.	64.2
8	ENKA INSAAT VE SANAYI AS	62.6
9	SACYR	40.8
10	CHINA NATIONAL MACHINERY INDUSTRY CORP.	21.1

SOLAR GENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SHANGHAI ELECTRIC GROUP CO. LTD.	1,408.4
2	POWER CONSTRUCTION CORP. OF CHINA	492.8
3	CHINA NATIONAL MACHINERY INDUSTRY CORP.	448.2
4	PCL CONSTRUCTION	438.0
5	CHINA ENERGY ENGINEERING CORP. LTD.	293.2
6	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	191.5
7	LARSEN & TOUBRO LTD.	182.5
8	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	121.7
9	CHINA RAILWAY CONSTRUCTION CORP. LTD.	73.0
10	TBEA CO. LTD.	54.9

Top International Design Firms

TRANSMISSION AND DISTRIBUTION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	314.6
2	CHINA ENERGY ENGINEERING CORP. LTD.	295.7
3	ARCADIS NV/CALLISON RTKL	206.1
4	WORLEY LTD.	133.6
5	JACOBS	97.7
6	STANTEC INC.	73.0
7	AFRY	68.1
8	SNC-LAVALIN INC.	64.6
9	TRACTEBEL	47.7
10	AECOM	43.0
11	TETRA TECH INC.	42.0
12	DAR GROUP	37.2
13	MOTT MACDONALD	32.0
14	FICHTNER GROUP	23.5
15	KHATIB & ALAMI	21.5
16	SURBANA JURONG PRIVATE LTD.	20.9
17	POWER ENGINEERS INC.	20.8
18	RAMBOLL GROUP A/S	19.2
19	CISPDR CORPORATION	16.3
20	AURECON	15.4
21	POWER CONSTRUCTION CORP. OF CHINA	14.5
22	CHINA NATIONAL MACHINERY INDUSTRY CORP.	12.7
23	SARGENT & LUNDY	11.7
24	BURNS & MCDONNELL	11.6
25	EXP	10.2

WIND GENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POWER CONSTRUCTION CORP. OF CHINA	910.6
2	CHINA ENERGY ENGINEERING CORP. LTD.	157.4
3	WORLEY LTD.	61.2
4	MOTT MACDONALD	41.2
5	JACOBS	38.2
6	RAMBOLL GROUP A/S	35.2
7	TRACTEBEL	30.6
8†	STANTEC INC.	27.0
9	HATCH LTD.	26.0
10	WSP GLOBAL INC.	18.0

SOLAR GENERATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POWER CONSTRUCTION CORP. OF CHINA	277.1
2	CHINA ENERGY ENGINEERING CORP. LTD.	175.5
3	WORLEY LTD.	98.9
4	STANTEC INC.	20.3
5	CHINA NATIONAL MACHINERY INDUSTRY CORP.	17.9
6	JACOBS	17.8
7	HATCH LTD.	16.0
8	TECNICA Y PROYECTOS SA (TYPESA)	14.4
9	FICHTNER GROUP	10.8
10	TRACTEBEL	10.2

*BASED ON 2021 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 2021 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

†DENOTES WHERE COWI A/S WOULD HAVE RANKED. COWI WAS LEFT OFF DUE TO AN ERROR ON THEIR SURVEY.

AUSTRALIA

First CCS Project Starts FEED

Australian energy developers Triangle Energy and Pilot Energy said they are set to start front-end engineering and design of what could become Australia's first carbon capture and storage (CCS) project, which would also be one of the world's largest. The facility in a western Australia oil field would store up to 9.7 million metric tons of carbon dioxide beneath the ocean floor, enabling injection of 665,000 metric tons per year over 15 years. The firms now seek regulatory approvals, but a final investment decision also awaits detailed FEED completion, selection of EPC contractors and offtake deals, they said. Industry publication Upstream projects startup in 2025. Total project investment was not disclosed. It is the first CCS in the country to move forward since enabling legislation in 2006.

GLOBAL METHANE

Saipem, Worley Join Zero Push

Italy-based contractor Saipem and Australia-based design-build firm Worley recently joined, as supporters, the Aiming for Zero Methane Emissions Initiative, which was created this year to focus on eliminating methane emissions from oil and gas assets by 2030. It is sponsored by the Oil and Gas Climate Initiative, a group of 12 global oil and gas majors. "Aiming for Zero initiative is important as we work with our customers to reach near zero methane from their oil and gas assets," said Oliver Morgan, Worley senior vice president of upstream and midstream. "Eliminating virtually all methane emissions by 2030 is possible."

INDIA

\$4.92-Billion Petrochemical Plant

Mumbai, India, industrial conglomerate Essar Group said Dec. 1 that it would build a \$4.92-billion oil-to-petrochemical complex in the eastern state of Odisha in an agreement with a global firm it did not identify. The facility would produce about 7.5 million metric tons per year, it said. Firm subsidiary Essar Oil UK also said on Nov. 30 it plans to construct a carbon capture and storage facility at its U.K. refinery, with a planned investment of \$432 million.

\$190

Cost of damage to the environment for every ton of greenhouse gases emitted into the atmosphere

—U.S. EPA proposed metric, Nov. 2022

40%

Drop in C-suite talk on ESG issues in latest quarter earnings call of 172 publicly-owned fossil fuel companies vs. 2021

—Bloomberg transcript analysis

The average cost of regular unleaded gasoline in the U.S. fell to \$3.43 per gallon on Dec. 2, more than 30% below a record that topped \$5 in June, and among the lowest levels since Russia invaded Ukraine in February. Less demand for oil with lagging U.S. commuting patterns since the pandemic and increased U.S. refinery output after maintenance shutdowns are cited. Gas prices could continue falling through the next 60 days.

Canada Gas Demand Up

Enbridge could spend more than \$4 billion on B.C. pipeline expansion

As prices and demand rise, energy firm Enbridge Inc. said in November it plans to invest more than \$4 billion to expand its natural gas pipelines in British Columbia, citing new needs of LNG production projects expected to come online in the province and in the U.S. "This expansion illustrates the immense strategic importance of our B.C. natural gas system in supplying regional and global energy demand with low-emission natural gas," said Cynthia Hansen, president of the firm's gas transmission and midstream operation. Enbridge said it plans to spend an estimated \$2.7 billion to expand the T-South pipeline, which runs from Chetwynd, B.C., to the U.S. border, to boost its capacity by 300 million cu ft per day. Work will involve adding pipeline loops and additional compression, with construction site locations to be determined "in the coming months," the firm said, pending talks with indigenous communities and environmental reviews. Enbridge said it would seek federal regulatory approval in 2024 and have the line operating by 2028. The developer also said it plans to gauge customer interest in added capacity on its T-North line in the province, which ties into T-South, and could invest an estimated \$1.4 billion to expand it. Ian Archer, S&P Global associate director of commodity insights, termed 2022 "a really banner year for gas development," noting "very strong growth in western Canadian production." ■

By Debra K. Rubin



PUMPED Energy firm Enbridge said it would expand B.C. pipeline capacity, citing more LNG demand.

PHOTO COURTESY ENBRIDGE INC.

Top International Contractors

PETROLEUM		
RANK	FIRM	REVENUE (\$ MIL.)*
1	SAIPEM SPA	6,274.0
2	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	4,370.1
3	CHINA PETROLEUM ENGINEERING CO. LTD.	3,241.3
4	SAMSUNG ENGINEERING CO. LTD.	3,229.5
5	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	2,711.3
6	MAIRE TECNIMONT SPA	2,696.0
7	FLUOR	2,682.7
8	JGC HOLDINGS CORP.	2,628.0
9	PETROFAC LTD.	2,608.5
10	WOOD	1,899.1
11	HYUNDAI ENGINEERING CO. LTD.	1,728.9
12	WORLEY LTD.	1,614.4
13	CHIYODA CORP.	1,408.2
14	LARSEN & TOUBRO LTD.	1,114.3
15	KIEWIT CORP.	990.0
16	SK ECOPLANT	926.3
17	SICIM SPA	849.9
18	CTCI CORP.	828.4
19	TOYO ENGINEERING CORP.	807.6
20	ROYAL BOSKALIS WESTMINSTER NV	715.0
21	SINOPEC ENGINEERING (GROUP) CO. LTD.	684.0
22	BONATTI GROUP	682.0
23	CONSOLIDATED CONTRACTORS GROUP	679.7
24	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	559.0
25	CONTRACTING AND TRADING CO. (C.A.T.)	554.0
26	DAEWOO ENGINEERING AND CONSTRUCTION CO. LTD.	552.3
27	GRUPO ACS/HOCHTIEF	548.4
28	SINOPEC ZHONGYUAN PETROLEUM ENGINEERING LTD.	512.4
29	RENAISSANCE CONSTRUCTION	489.8
30	BECHTEL	442.0
31	GS ENGINEERING & CONSTRUCTION	420.1
32	CITIC CONSTRUCTION CO. LTD.	390.0
33	DL E&C CO. LTD.	375.8
34	VINCI	366.0
35	MICHELS CORP.	280.9
36	POSCO ENGINEERING & CONSTRUCTION	277.4
37	PETRO. PROJECTS AND TECH. CONSULT. CO. - PETROJET	260.4
38	CHINA ENERGY ENGINEERING CORP. LTD.	248.2
39	APTIM	233.6
40	PCL CONSTRUCTION	219.8
41	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	218.9
42	USTAY YAPI TAAHHUT VE TICARET AS	213.8
43	VAN OORD NV	199.0
44	ENKA INSAAT VE SANAYI AS	197.5
45	EIFFAGE	155.0
46	MOTA-ENGIL	150.0
47	VELESSTROY LLC	144.0
48	CHINA NATIONAL MACHINERY INDUSTRY CORP.	139.6
49	BOUYGUES	136.0
50	SAMSUNG C&T CORP.	130.0

Top International Design Firms

PETROLEUM		
RANK	FIRM	REVENUE (\$ MIL.)*
1	WORLEY LTD.	2,880.2
2	FLUOR	2,003.2
3	WOOD	1,119.4
4	FUGRO NV	594.4
5	MAIRE TECNIMONT SPA	378.7
6	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	312.6
7	PETROFAC LTD.	296.3
8	CHINA PETROLEUM ENGINEERING CO. LTD.	253.6
9	INTERTEK-PSI	186.2
10	SAMSUNG ENGINEERING CO. LTD.	174.3
11	WSP GLOBAL INC.	121.4
12	MOTT MACDONALD	100.9
13	ILF CONSULTING ENGINEERS	89.7
14	STANTEC INC.	87.4
15	LARSEN & TOUBRO LTD.	83.0
16	SINOPEC ENGINEERING (GROUP) CO. LTD.	69.1
17	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	66.6
18	CTCI CORP.	63.9
19	BECHTEL	58.0
20	BILFINGER TEBODIN	52.4
21	JGC HOLDINGS CORP.	52.0
22	ARTELIA	40.9
23	TRACTEBEL	37.0
24	AECOM	33.7
25	ARUP GROUP LTD.	31.6
26	HATCH LTD.	30.0
27	BLACK & VEATCH	28.3
28	IDOM	25.3
29	TETRA TECH INC.	23.0
30	SK ECOPLANT	19.3
31	KIEWIT CORP.	14.6
32	DAR GROUP	12.5
33	CONSOLIDATED CONTRACTORS GROUP	11.1
34	TATA PROJECTS LTD.	10.6
35	TEKFEN ENGINEERING INC. CO.	10.6
36	AYESA	10.5
37	GHD	10.5
38	KLEINFELDER	10.3
39	KHATIB & ALAMI	10.3
40	RAMBOLL GROUP A/S	8.3
41	PRIMORIS	7.2
42	SENER GRUPO DE INGENIERIA SA	6.8
43	VEPICA GRUPO INTERNACIONAL SLU	6.8
44	ARCADIS NV/CALLISON RTKL	6.7
45	CHINA NATIONAL MACHINERY INDUSTRY CORP.	5.6
46	S&B ENGINEERS AND CONSTRUCTORS LTD.	5.1
47	DBA GROUP SPA.	3.1
48	AFRY	3.0
49	JENSEN HUGHES	3.0
50	THORNTON TOMASETTI	2.7

*BASED ON 2021 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 2021 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.	2,702.7
2	FLUOR	2,677.6
3	SAMSUNG ENGINEERING CO. LTD.	2,564.9
4	HYUNDAI ENGINEERING CO. LTD.	1,728.9
5	MAIRE TECNIMONT SPA	1,692.4
6	PETROFAC LTD.	1,494.0
7	CTCI CORP.	828.4
8	SINOPEC ENGINEERING (GROUP) CO. LTD.	684.0
9	CONSOLIDATED CONTRACTORS GROUP	656.4
10	GRUPO ACS/HOCHTIEF	457.0
11	BECHTEL	442.4
12	WORLEY LTD.	430.8
13	GS ENGINEERING & CONSTRUCTION	415.7
14	CITIC CONSTRUCTION CO. LTD.	390.0
15	DL E&C CO. LTD.	375.8
16	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	303.0
17	BONATTI GROUP	262.0
18	LARSEN & TOUBRO LTD.	250.1
19	CHINA ENERGY ENGINEERING CORP. LTD.	248.2
20	SICIM SPA	247.0
21	POSCO ENGINEERING & CONSTRUCTION	243.6
22	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	203.7
23	ENKA INSAAT VE SANAYI AS	179.5
24	KIEWIT CORP.	161.7
25	VELESSTROY LLC	144.0

MAINTENANCE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	MAIRE TECNIMONT SPA	1,003.6
2	PETROFAC LTD.	449.6
3	APTIM	229.3
4	BONATTI GROUP	160.0
5	PCL CONSTRUCTION	104.2

OFFSHORE AND UNDERWATER FACILITIES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WORLEY LTD.	758.6
2	LARSEN & TOUBRO LTD.	317.6
3	PETROFAC LTD.	144.6
4	CHINA PETROLEUM ENGINEERING CO. LTD.	120.6
5	GRUPO ACS/HOCHTIEF	68.4
6	ILK CONSTRUCTION	64.0
7	BLACK & VEATCH	41.2
8	KIEWIT CORP.	30.0
9	BAUER AG	21.5
10	HANWHA ENGINEERING & CONSTRUCTION	5.2

Top International Design Firms

REFINERIES AND PETROCHEMICAL PLANTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	FLUOR	1,810.4
2	WORLEY LTD.	1,710.9
3	MAIRE TECNIMONT SPA	207.1
4	PETROFAC LTD.	169.7
5	SAMSUNG ENGINEERING CO. LTD.	136.5
6	SINOPEC ENGINEERING (GROUP) CO. LTD.	69.1
7	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	65.5
8	CTCI CORP.	63.9
9	BECHTEL	56.3
10	LARSEN & TOUBRO LTD.	46.2
11	BILFINGER TEBODIN	39.7
12	HATCH LTD.	30.0
13	IDOM	25.3
14	CHINA PETROLEUM ENGINEERING CO. LTD.	17.7
15	BLACK & VEATCH	16.5
16	STANTEC INC.	15.0
17	WSP GLOBAL INC.	13.8
18	KHATIB & ALAMI	10.1
19	CONSOLIDATED CONTRACTORS GROUP	9.9
20	AECOM	7.1
21	S&B ENGINEERS AND CONSTRUCTORS LTD.	5.1
22	MOTT MACDONALD	5.1
23	VEPICA GRUPO INTERNACIONAL SLU	4.8
24	TETRA TECH INC.	4.0
25	SENER GRUPO DE INGENIERIA SA	3.9

MAINTENANCE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	PETROFAC LTD.	51.1
2	AECOM	26.1
3	STANTEC INC.	11.3
4	CHINA PETROLEUM ENGINEERING CO. LTD.	2.7
5	VEPICA GRUPO INTERNACIONAL SLU	1.6

OFFSHORE AND UNDERWATER FACILITIES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WORLEY LTD.	569.8
2	FLUOR	187.8
3	LARSEN & TOUBRO LTD.	35.0
4	MOTT MACDONALD	17.7
5	PETROFAC LTD.	16.4
6	BLACK & VEATCH	10.3
7	ARUP GROUP LTD.	7.8
8	RAMBOLL GROUP A/S	6.6
9	BILFINGER TEBODIN	5.4
10	THORNTON TOMASETTI	2.7

Top International Contractors

PIPELINES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA PETROLEUM ENGINEERING CO. LTD.	1,006.0
2	KIEWIT CORP.	795.6
3	SICIM SPA	554.9
4	CONTRACTING AND TRADING CO. (C.A.T.)	554.0
5	WORLEY LTD.	295.5
6	MICHELS CORP.	280.9
7	BONATTI GROUP	258.0
8	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	256.0
9	PETRO. PROJECTS AND TECH. CONSULT. CO. - PETROJET	145.8
10	LARSEN & TOUBRO LTD.	128.9
11	CHINA NATIONAL MACHINERY INDUSTRY CORP.	53.7
12	WEEKS MARINE INC.	24.1
13	CONSOLIDATED CONTRACTORS GROUP	23.3
14	GRUPO ACS/HOCHTIEF	23.0
15	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	15.2
16	SNC-LAVALIN INC.	11.2
17	OBAYASHI CORP.	11.0
18	PETROFAC LTD.	6.7
19	SENER GRUPO DE INGENIERIA SA	6.1
20	FLUOR	5.1
21	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	3.7
22	CHINA RAILWAY CONSTRUCTION CORP. LTD.	2.0
23	ECC	1.1
24	ENKA INSAAT VE SANAYI AS	0.6
25	PCL CONSTRUCTION	0.5

Top International Design Firms

PIPELINES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WORLEY LTD.	157.9
2	INTERTEK-PSI	139.2
3	MOTT MACDONALD	78.1
4	WSP GLOBAL INC.	76.7
5	STANTEC INC.	60.3
6	ARUP GROUP LTD.	20.1
7	TETRA TECH INC.	19.0
8	KIEWIT CORP.	14.0
9	DAR GROUP	9.6
10	CHINA PETROLEUM ENGINEERING CO. LTD.	6.9
11	BILFINGER TEBODIN	6.7
12	ARCADIS NV/CALLISON RTKL	6.5
13	FLUOR	4.0
14	POND	2.2
15	CHINA NATIONAL MACHINERY INDUSTRY CORP.	2.1
16	HDR	1.8
17	ASSOCIATED CONSULTING ENGINEERS	1.5
18	BARR ENGINEERING CO.	1.5
19	BECHTEL	1.3
20	CONSOLIDATED CONTRACTORS GROUP	1.2
21	DORSCH HOLDING GMBH	1.1
22	ENG'G FOR THE PETROLEUM & PROCESS INDUSTRIES (ENPPI)	1.0
23	RAMBOLL GROUP A/S	1.0
24	GRUPO ACS/HOCHTIEF	1.0
25	EXP	0.8



ROCKY TERRAIN
 The geography of the site, in a gorge on the Coruh River in a mountainous area of northeastern Turkey, presented challenges for the project's design and construction.

Tallest Dam In Turkey Opens

The 275-meter tall arch dam is complete, but ancillary work remains

The world's fifth-tallest arch dam, on the Coruh River in a mountainous region of northeastern Turkey, began operating in late November, passing a major milestone for the project.

The Yusufeli hydroelectric dam—the tallest dam in Turkey, standing 275 meters tall—can store up to 2.1 billion cu meters of water, and will have an installed capacity of 558 MW when fully operational. Limak Construction, part of Turkish conglomerate Turkish Holding, is the EPC contractor on the project for the Turkish Ministry of Agriculture and Forestry.

According to Resit Yidiz, director of projects for Limak, significant ancillary work remains, including: tailwater channel dredging works, a tunnel spillways plunge pool, concrete for plugging a diversion tunnel, cut-and-cover structures for access tunnels, and additional access roads. Construction on the project began in 2013. ■

By Pam McFarland

CANADA

GHD TEAM WINS REMEDIATION OF ONTARIO LEGACY WASTE SITE

GHD, in partnership with Bird Construction as project lead, in November received a limited notice to proceed for early work on a multi-year task order for the Port Hope Area Initiative for Canadian Nuclear Laboratories. The initiative is the largest active environmental remediation project in Canada and involves the cleanup of more than 1.2 million cu meters of legacy low-level radioactive waste from more than 1,000 industrial, institutional and residential properties in Port Hope and Clarington, Ontario. As the environmental consultant, GHD will provide site characterization and the design for remediation and restoration.



Canada New Wastewater Treatment Plant

PCL Constructors Westcoast is providing construction management services—including developing a new plan, revised budget and schedule—for Metro Vancouver's new North Shore Wastewater Treatment Plant. The tertiary treatment plant, with an original planned completion date of 2020 under former contractor Acciona Wastewater Solutions LP, is now set for a 2024 opening. AECOM, the owner's engineer at project onset, is now also design consultant for the plant, which will serve 250,000 residents and businesses in North and West Vancouver. Total project outlay for 2022 is \$267 million Canadian dollars, with the overall project estimated to cost about \$1 billion CAD. The project is being built to LEED Gold and Envision Gold certification standards, and will also harvest rainwater and use reclaimed water.

Brazil Asset Management Planning

In December, Arcadis will complete work on a two-year contract to develop a strategic asset management plan, for Embasa, a public water utility in the state of Bahia, Brazil. Arcadis developed a plan and methodology to enable the water utility, responsible for water and sewage systems in 368 cities, to develop plans for capital investments, risk assessments and operational optimization. Arcadis will oversee the next phase of the program, the implementation of the asset management roadmap.

BY THE NUMBERS

1ST
 Tallest dam
 in Turkey

5TH
 Tallest arch dam
 in the world

4 MILLION
 cu meters of concrete
 were used in the
 body of the dam

Top International Contractors

WATER SUPPLY		
RANK	FIRM	REVENUE (\$ MIL.)*
1	WEBUILD SPA	1,354.9
2	GRUPO ACS/HOCHTIEF	739.5
3	POWER CONSTRUCTION CORP. OF CHINA	598.0
4	STRABAG SE	588.3
5	ZHONGMEI ENGINEERING GROUP LTD.	527.8
6	CHINA ENERGY ENGINEERING CORP. LTD.	519.1
7	FCC SA	414.2
8	VINCI	380.0
9	OBAYASHI CORP.	340.0
10	MAPA INSAAT VE TICARET AS	338.8
11	FERROVIAL	327.1
12	CHINA NATIONAL MACHINERY INDUSTRY CORP.	315.3
13	GS ENGINEERING & CONSTRUCTION	281.9
14	ORASCOM CONSTRUCTION PLC	247.7
15	CHINA RAILWAY CONSTRUCTION CORP. LTD.	240.0
16	SAMSUNG C&T CORP.	229.0
17	EIFPAGE	220.0
18	CHINA GEO-ENGINEERING CORP.	210.2
19	CGCOC GROUP CO. LTD.	188.1
20	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	171.8
21	SACYR	166.9
22	MOTA-ENGIL	150.0
23	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	146.1
24	JIANGXI WATER AND HYDROPOWER CONSTR. CO. LTD.	136.9
25	OHLA	134.0
26	LARSEN & TOUBRO LTD.	126.2
27	YUKSEL INSAAT CO. INC.	120.4
28	SKANSKA AB	119.7
29	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	112.0
30	ZHENGTAI GROUP CO. LTD.	108.1
31	LIMAK INSAAT SANAYI VE TICARET AS	105.0
32	BECHTEL	92.0
33	MWH	88.2
34	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	75.1
35	CHINA PETROLEUM ENGINEERING CO. LTD.	71.5
36	WOOD	68.8
37	NUROL CONSTRUCTION AND TRADING CO. INC.	68.7
38	CHINA RAILWAY GROUP LTD.	65.1
39	BAUER AG	63.2
40	BOUYGUES	61.0
41	TREVI SPA	60.0
42	KIEWIT CORP.	52.4
43	CDM SMITH	50.2
44	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	44.8
45	ELECTRA LTD.	36.1
46	SHAANXI CONSTRUCTION ENGINEERING HOLDING GROUP CO. LTD.	35.2
47	RENAISSANCE CONSTRUCTION	33.0
48	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	31.3
49	ESER CONTRACTING	30.0
50	METAG GROUP	30.0
	SMK GROUP	30.0

Top International Design Firms

WATER SUPPLY		
RANK	FIRM	REVENUE (\$ MIL.)*
1	AECOM	470.1
2	STANTEC INC.	438.5
3	JACOBS	355.9
4	ARCADIS NV/CALLISON RTKL	335.1
5	TETRA TECH INC.	307.0
6	SNC-LAVALIN INC.	140.2
7	GHD	137.7
8	WSP GLOBAL INC.	124.1
9	MOTT MACDONALD	102.2
10	WOOD	72.3
11	SWECO AB	69.0
12	AYESA	60.3
13	ROYAL HASKONINGDHV	57.5
14	SURBANA JURONG PRIVATE LTD.	55.9
15	KHATIB & ALAMI	55.6
16	CDM SMITH	49.7
17	WORLEY LTD.	43.8
18	ARUP GROUP LTD.	40.6
19	FUGRO NV	40.3
20	COWI A/S	39.1
21	POWER CONSTRUCTION CORP. OF CHINA	38.2
22	EGIS	34.0
23	ILF CONSULTING ENGINEERS	32.8
24	FICHTNER GROUP	30.2
25	RAMBOLL GROUP A/S	28.4
26	DAR GROUP	27.5
27	TPF SA	25.0
28	HATCH LTD.	25.0
29	NIPPON KOEI GROUP	24.9
30	TECNICA Y PROYECTOS SA (TYPESA)	24.7
31	ARTELIA	20.1
32	DORSCH HOLDING GMBH	19.3
33	EXP	18.0
34	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	16.0
35	AFRY	16.0
36	BECA GROUP LTD.	14.8
37	BLACK & VEATCH	13.0
38	ITALCONSULT SPA	12.8
39	IDOM	12.8
40	STUDI INTERNATIONAL	12.8
41	CHINA NATIONAL MACHINERY INDUSTRY CORP.	12.6
42	KIEWIT CORP.	12.3
43	YACHIYO ENGINEERING CO. LTD.	12.1
44	PARSONS CORP.	11.7
45	DOHWA ENGINEERING CO. LTD.	10.7
46	ASSOCIATED CONSULTING ENGINEERS	10.5
47	ZUTARI (PTY) LTD.	9.7
48	CES CONSULTING ENGINEERS SALZGITTER GMBH	9.5
49	ZUHAIR FAYEZ PARTNERSHIP CONSULTANTS	8.1
50	ORIENTAL CONSULTANTS GLOBAL	7.3

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Top International Contractors

SEWER & SOLID WASTE		
RANK	FIRM	REVENUE (\$ MIL.)*
1	FCC SA	1,594.4
2	FERROVIAL	617.0
3	WEBUILD SPA	496.2
4	STRABAG SE	375.4
5	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	374.1
6	MOTA-ENGIL	300.0
7	OBAYASHI CORP.	253.0
8	GRUPO ACS/HOCHTIEF	199.0
9	GHELLA SPA	179.0
10	SKANSKA AB	153.8
11	POWER CONSTRUCTION CORP. OF CHINA	140.5
12	ED. ZUBLIN AG	135.2
13	SAMSUNG ENGINEERING CO. LTD.	134.7
14	NUROL CONSTRUCTION AND TRADING CO. INC.	127.1
15	PENTA-OCEAN CONSTRUCTION CO. LTD.	115.8
16	PER AARSLEFF HOLDING A/S	110.4
17	KUZU GROUP	109.0
18	BESIX	96.8
19	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	94.3
20	GRAHAM	93.0
21	SOUTHLAND HOLDINGS LLC	91.0
22	ORASCOM CONSTRUCTION PLC	88.9
23	SHANGHAI CONSTRUCTION GROUP CO. LTD.	83.1
24	CHINA RAILWAY GROUP LTD.	78.6
25	MWH	73.5
26	SHANGHAI URBAN CONSTRUCTION (GROUP) CORP.	64.5
27	BOUYGUES	60.0
28	YAPI MERKEZI INSAAT VE SANAYI AS	55.2
29	POSCO ENGINEERING & CONSTRUCTION	50.8
30	PCL CONSTRUCTION	49.4
31	JAN DE NUL GROUP (SOFIDRA SA)	47.0
32	LARSEN & TOUBRO LTD.	46.1
33	MICHELS CORP.	45.8
34	KAJIMA CORP.	40.6
35	BOTHAR GROUP PTY LTD.	37.5
36	TRAYLOR CONSTRUCTION GROUP INC.	36.9
37	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	35.7
38	OHLA	35.3
39	SACYR	32.7
40	EIFFAGE	32.0
41	WEEKS MARINE INC.	28.9
42	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	27.5
43	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	25.9
44	ALBERICI-FLINTCO	25.9
45	MBD INSAAT SANAYI VE TICARET AS	25.4
46	BAUER AG	22.3
47	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	21.7
48	JIANGLIAN HEAVY INDUSTRY GROUP CO. LTD.	18.1
49	GRANITE CONSTRUCTION INC.	18.0
50	RAMBOLL GROUP A/S	17.7

Top International Design Firms

SEWER & SOLID WASTE		
RANK	FIRM	REVENUE (\$ MIL.)*
1	STANTEC INC.	308.3
2	JACOBS	182.4
3	AECOM	157.5
4	GHD	119.5
5	MOTT MACDONALD	113.3
6	ARCADIS NV/CALLISON RTKL	105.4
7	WSP GLOBAL INC.	88.9
8	RAMBOLL GROUP A/S	84.5
9	COWI A/S	83.6
10	SNC-LAVALIN INC.	75.0
11	TETRA TECH INC.	75.0
12	WOOD	65.1
13	SURBANA JURONG PRIVATE LTD.	55.9
14	SWECO AB	55.0
15	DAR GROUP	54.9
16	KHATIB & ALAMI	40.8
17	CDM SMITH	36.0
18	ASSOCIATED CONSULTING ENGINEERS	26.0
19	AFRY	22.0
20	ARUP GROUP LTD.	21.5
21	ROYAL HASKONINGDHV	21.2
22	CTI ENGINEERING GROUP	19.8
23	WORLEY LTD.	18.7
24	FICHTNER GROUP	18.6
25	BLACK & VEATCH	16.8
26	ILF CONSULTING ENGINEERS	16.6
27	DORSCH HOLDING GMBH	16.5
28	HASSAN ALLAM HOLDING	15.2
29	IBI GROUP INC.	14.6
30	AYESA	13.0
31	TECNICA Y PROYECTOS SA (TYPESA)	12.8
32	ARTELIA	12.2
33	NIPPON KOEI GROUP	8.5
34	STUDI INTERNATIONAL	7.2
35	CES CONSULTING ENGINEERS SALZGITTER GMBH	7.2
36	SAMSUNG ENGINEERING CO. LTD.	7.1
37	DOHWA ENGINEERING CO. LTD.	7.1
38	MEINHARDT GROUP INTERNATIONAL	6.9
39	MORRISON HERSHFIELD	6.5
40	IDOM	6.4
41	NICHOLAS O'DWYER LTD.	6.2
42	LARSEN & TOUBRO LTD.	6.1
43	HDR	5.8
44	GEOSYNTEC CONSULTANTS	5.2
45	ITALCONSULT SPA	5.1
46	AAW CONSULTING ENGINEERS	4.8
47	TPF SA	4.8
48	ARABTECH JARDANEH	4.4
49	NIHON SUIDO CONSULTANTS CO. LTD.	4.4
50	SHAKER GROUP	3.8

Top International Contractors

WASTEWATER TREATMENT		
RANK	FIRM	REVENUE (\$ MIL.**)
1	OBAYASHI CORP.	253.0
2	GHELLA SPA	179.0
3	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	174.3
4	SKANSKA AB	89.1
5	POWER CONSTRUCTION CORP. OF CHINA	81.3
6	CHINA RAILWAY GROUP LTD.	78.6
7	MWH	73.6
8	SAMSUNG ENGINEERING CO. LTD.	57.6
9	YAPI MERKEZI INSAAT VE SANAYI AS	55.2
10	GRUPO ACS/HOCHTIEF	55.0
11	PCL CONSTRUCTION	46.5
12	LARSEN & TOUBRO LTD.	46.1
13	KAJIMA CORP.	36.9
14	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	35.7
15	WEEKS MARINE INC.	28.9
16	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	27.5
17	ALBERICI-FLINTCO	25.9
18	WEBUILD SPA	25.1
19	MICHELS CORP.	24.8
20	BAUER AG	22.3
21	OHLA	22.2
22	JIANGLIAN HEAVY INDUSTRY GROUP CO. LTD.	18.1
23	CHINA NATIONAL COMPLETE PLANT IMP. & EXP. GROUP	17.4
24	SOUTHLAND HOLDINGS LLC	11.0
25	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	10.9

HAZARDOUS WASTE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	VINCI	203.0
2	AMENTUM	80.0
3	RAMBOLL GROUP A/S	72.3
4	EIFFAGE	40.0
5	SKANSKA AB	20.7
6	ECC	11.8
7	BOUYGUES	9.0
8	WSP GLOBAL INC.	7.1
9	BECHTEL	5.0
10	GILBANE BUILDING CO.	2.7

Top International Design Firms

WASTEWATER TREATMENT		
RANK	FIRM	REVENUE (\$ MIL.**)
1	STANTEC INC.	161.3
2	AECOM	156.6
3	JACOBS	114.2
4	SNC-LAVALIN INC.	75.0
5	ARCADIS NV/CALLISON RTKL	46.1
6	MOTT MACDONALD	37.7
7	WSP GLOBAL INC.	35.5
8	RAMBOLL GROUP A/S	33.5
9	CDM SMITH	22.7
10	ROYAL HASKONINGDHV	20.7
11	TETRA TECH INC.	20.0
12	WORLEY LTD.	18.7
13†	AFRY	15.7
14	HASSAN ALLAM HOLDING	15.2
15	DORSCH HOLDING GMBH	12.9
16	BLACK & VEATCH	11.8
17	ASSOCIATED CONSULTING ENGINEERS	11.0
18	TECNICA Y PROYECTOS SA (TYPESA)	9.8
19	ARUP GROUP LTD.	9.6
20	DAR GROUP	9.1
21	MEINHARDT GROUP INTERNATIONAL	5.5
22	ARTELIA	4.8
23	ARABTECH JARDANEH	4.4
24	TPF SA	3.7
25	CES CONSULTING ENGINEERS SALZGITTER GMBH	3.6

HAZARDOUS WASTE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV/CALLISON RTKL	895.5
2	JACOBS	448.6
3	RAMBOLL GROUP A/S	332.4
4	WSP GLOBAL INC.	294.4
5	AECOM	288.5
6	GHD	248.9
7	WOOD	246.9
8	SNC-LAVALIN INC.	240.2
9	TETRA TECH INC.	95.0
10	WORLEY LTD.	87.4

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† DENOTES WHERE COWI A/S WOULD HAVE RANKED. COWI WAS LEFT OFF DUE TO AN ERROR ON THEIR SURVEY.

Top International Contractors

TREATMENT & DESALINATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA ENERGY ENGINEERING CORP. LTD.	473.7
2	POWER CONSTRUCTION CORP. OF CHINA	365.2
3	GS ENGINEERING & CONSTRUCTION	281.9
4	CHINA NATIONAL MACHINERY INDUSTRY CORP.	253.5
5	GRUPO ACS/HOCHTIEF	132.0
6	SACYR	96.5
7	MWH	88.2
8	CDM SMITH	50.2
9	CHINA RAILWAY CONSTRUCTION CORP. LTD.	50.0
10	CHINA NONFERROUS METAL IND. FOR. ENG'G AND CONSTR.	44.8
11	ELECTRA LTD.	36.1
12	CHINA RAILWAY GROUP LTD.	34.3
13	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	28.6
14	SHANXI CONSTRUCTION INVESTMENT GROUP CO. LTD.	27.6
15	HYUNDAI ENGINEERING CO. LTD.	25.2
16	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	23.7
17	QINGJIAN GROUP CO. LTD.	22.7
18	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	21.6
19	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	18.9
20	WEBUILD SPA	16.8
21	SICIM SPA	15.5
22	ALBERICI-FLINTCO	14.8
23	EGYPTIAN MAINTENANCE CO. (EMC)	14.0
24	POSCO ENGINEERING & CONSTRUCTION	13.2
25	PCL CONSTRUCTION	10.3

TRANSMISSION LINES & AQUEDUCTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	MAPA INSAAT VE TICARET AS	338.8
2	CHINA GEO-ENGINEERING CORP.	171.3
3	CGCOC GROUP CO. LTD.	135.1
4	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	134.3
5	POWER CONSTRUCTION CORP. OF CHINA	131.8
6	CHINA RAILWAY CONSTRUCTION CORP. LTD.	128.0
7	LARSEN & TOUBRO LTD.	126.2
8	OHLA	122.2
9	YUKSEL INSAAT CO. INC.	120.4
10	ZHENGTAI GROUP CO. LTD.	108.1
11	LIMAK INSAAT SANAYI VE TICARET AS	105.0
12	ZHONGMEI ENGINEERING GROUP LTD.	96.8
13	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	88.3
14	SKANSKA AB	80.0
15	OBAYASHI CORP.	75.0
16	CHINA PETROLEUM ENGINEERING CO. LTD.	71.5
17	BECHTEL	63.9
18	CHINA NATIONAL MACHINERY INDUSTRY CORP.	32.7
19	CHINA RAILWAY GROUP LTD.	29.3
20	GRUPO ACS/HOCHTIEF	28.0
21	AFCONS INFRASTRUCTURE LTD.	23.2
22	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	21.6
23	KAJIMA CORP.	21.3
24	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	20.8
25	PENTA-OCEAN CONSTRUCTION CO. LTD.	18.2

Top International Design Firms

TREATMENT & DESALINATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV/CALLISON RTKL	229.8
2	STANTEC INC.	209.2
3	JACOBS	190.9
4	AECOM	156.4
5	TETRA TECH INC.	108.0
6	POWER CONSTRUCTION CORP. OF CHINA	37.5
7	MOTT MACDONALD	36.9
8	CDM SMITH	36.4
9	EGIS	34.0
10	WORLEY LTD.	32.1
11	HATCH LTD.	25.0
12	ROYAL HASKONINGDHV	19.1
13	FICHTNER GROUP	18.8
14	WSP GLOBAL INC.	12.9
15	IDOM	12.8
16	BLACK & VEATCH	12.2
17†	DORSCH HOLDING GMBH	10.8
18	TPF SA	10.2
19	CHINA NATIONAL MACHINERY INDUSTRY CORP.	10.1
20	TECNICA Y PROYECTOS SA (TYPESA)	10.1
21	RAMBOLL GROUP A/S	8.6
22	KHATIB & ALAMI	7.2
23	PARSONS CORP.	6.1
24	NIPPON KOEI GROUP	5.0
25	CHINA ENERGY ENGINEERING CORP. LTD.	4.6

TRANSMISSION LINES & AQUEDUCTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	AECOM	169.1
2	SNC-LAVALIN INC.	140.2
3	JACOBS	114.0
4	STANTEC INC.	75.3
5	ARCADIS NV/CALLISON RTKL	64.4
6	MOTT MACDONALD	47.8
7	TETRA TECH INC.	40.0
8	KHATIB & ALAMI	37.8
9	WSP GLOBAL INC.	26.7
10†	DAR GROUP	21.8
11	CDM SMITH	13.3
12	TPF SA	12.7
13	EXP	11.4
14	FICHTNER GROUP	10.5
15	NIPPON KOEI GROUP	10.1
16	ARUP GROUP LTD.	10.1
17	TECNICA Y PROYECTOS SA (TYPESA)	7.9
18	RAMBOLL GROUP A/S	7.2
19	TECHNICAL SPA	6.0
20	ARTELIA	5.8
21	PARSONS CORP.	5.5
22	ORIENTAL CONSULTANTS GLOBAL	4.9
23	LARSEN & TOUBRO LTD.	4.8
24	CES CONSULTING ENGINEERS SALZGITTER GMBH	4.3
25	DORSCH HOLDING GMBH	4.1

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†DENOTES WHERE COWI A/S WOULD HAVE RANKED. COWI WAS LEFT OFF DUE TO AN ERROR ON THEIR SURVEY.

Top International Contractors

DAMS & RESERVOIRS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WEBUILD SPA	1,337.9
2	GRUPO ACS/HOCHTIEF	573.1
3	ZHONGMEI ENGINEERING GROUP LTD.	431.0
4	OBAYASHI CORP.	265.0
5	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	114.1
6	POWER CONSTRUCTION CORP. OF CHINA	65.3
7	SACYR	65.0
8	BAUER AG	63.2
9	KIEWIT CORP.	52.4
10	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	49.9
11	OHLA	44.0
12	CGCOC GROUP CO. LTD.	37.5
13	CHINA NATIONAL MACHINERY INDUSTRY CORP.	28.7
14	CHONGQING INTERNATIONAL CONSTRUCTION CORP.	27.9
15	CHINA GEO-ENGINEERING CORP.	22.1
16	CHINA RAILWAY CONSTRUCTION CORP. LTD.	20.0
17	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	16.0
18	DL E&C CO. LTD.	15.8
19	SHAANXI CONSTRUCTION ENGINEERING HOLDING GROUP CO. LTD.	14.8
20	CHINA ENERGY ENGINEERING CORP. LTD.	11.2

SANITARY & STORM SEWERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WEBUILD SPA	471.1
2	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	159.6
3	GRUPO ACS/HOCHTIEF	144.0
4	PER AARSLEFF HOLDING A/S	108.2
5	MOHAMMED ABDULMOHSIN AL-KHARAFI & SONS	83.3
6	SHANGHAI CONSTRUCTION GROUP CO. LTD.	80.6
7	SHANGHAI URBAN CONSTRUCTION (GROUP) CORP.	64.5
8	PENTA-OCEAN CONSTRUCTION CO. LTD.	56.3
9	TRAYLOR CONSTRUCTION GROUP INC.	36.9
10	OHLA	34.4
11	POWER CONSTRUCTION CORP. OF CHINA	28.9
12	SKANSKA AB	27.2
13	CHINA HENAN INT'L COOPERATION GROUP CO. LTD.	25.9
14	MICHELS CORP.	21.0
15	GRANITE CONSTRUCTION INC.	18.0

SOLID WASTE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SAMSUNG ENGINEERING CO. LTD.	74.3
2	PENTA-OCEAN CONSTRUCTION CO. LTD.	59.4
3	POSCO ENGINEERING & CONSTRUCTION	50.8
4	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	36.8
5	SACYR	32.7
6	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	9.9
7	HYUNDAI ENGINEERING CO. LTD.	9.1
8	PCL CONSTRUCTION	2.1
9	POWER CONSTRUCTION CORP. OF CHINA	1.6
10	SHANDONG HI-SPEED GROUP CO. LTD.	1.0

Top International Design Firms

DAMS & RESERVOIRS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	TETRA TECH INC.	159.0
2	STANTEC INC.	153.9
3	AECOM	144.7
4	SURBANA JURONG PRIVATE LTD.	55.9
5	JACOBS	51.0
6	ARCADIS NV/CALLISON RTKL	40.9
7	ROYAL HASKONINGDHV	38.3
8	WSP GLOBAL INC.	35.1
9	MOTT MACDONALD	17.3
10	RAMBOLL GROUP A/S	12.7
11	KIEWIT CORP.	12.3
12	WORLEY LTD.	11.7
13	ARUP GROUP LTD.	8.2
14	TECNICA Y PROYECTOS SA (TYPESA)	6.7
15	ASSOCIATED CONSULTING ENGINEERS	6.5
16	ARTELIA	5.2
17	DOLSAR ENGINEERING	4.8
18	DORSCH HOLDING GMBH	4.4
19	NIPPON KOEI GROUP	4.3
20	EXP	3.8

SANITARY & STORM SEWERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	STANTEC INC.	135.1
2	MOTT MACDONALD	68.8
3	JACOBS	65.7
4	ARCADIS NV/CALLISON RTKL	57.1
5	RAMBOLL GROUP A/S	43.8
6	DAR GROUP	41.8
7	KHATIB & ALAMI	40.8
8†	TETRA TECH INC.	25.0
9	CTI ENGINEERING GROUP	19.8
10	ASSOCIATED CONSULTING ENGINEERS	14.5
11	WSP GLOBAL INC.	13.9
12	CDM SMITH	13.3
13	ARTELIA	5.8
14	ARUP GROUP LTD.	4.1
15	FICHTNER GROUP	3.6
15	DORSCH HOLDING GMBH	3.6

SOLID WASTE		
RANK	FIRM	REVENUE (\$ MIL.**)
1†	TETRA TECH INC.	30.0
2	STANTEC INC.	11.9
3	FICHTNER GROUP	11.9
4	ARUP GROUP LTD.	7.2
5	RAMBOLL GROUP A/S	7.2
6	MOTT MACDONALD	6.8
7	MORRISON HERSHFIELD	4.4
8	GEOSYNTEC CONSULTANTS	4.2
9	DAR GROUP	4.0
10	SAMSUNG ENGINEERING CO. LTD.	3.9

*BASED ON 2021 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 2021 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK SURVEYS. SEE ENR.COM FOR COMPLETE LISTINGS.

† DENOTES WHERE COWI A/S WOULD HAVE RANKED. COWI WAS LEFT OFF DUE TO AN ERROR ON THEIR SURVEY.



GOLD DonauTower aims to achieve Gold certification from the German Sustainable Building Council.

Sustainable Tower

German bank headquarters aims for energy efficiency

ZÜBLIN, a subsidiary of STRABAG, broke ground recently on a new headquarters project for Volksbank Raiffeisenbank Bayern Mitte eG in Ingolstadt, Germany. The contract value is approximately \$74 million. Prior to the award, ZÜBLIN completed general planning services for the project. STRABAG's Zentrale Technik, which offers integrated technical services, was also involved in planning. The project is expected to complete by the end of 2024.

The new building—dubbed DonauTower—consists of a 187-ft-tall, 14-story tower and six-story base building. The completed facility will offer around 113,000 sq ft of usable space—half of which will be occupied by the VR-Bank. The remaining space will be leased.

In addition to office and commercial space, the building complex will offer a café with an outdoor eating area on the ground floor and two roof gardens on the first and sixth floors. The building's energy-efficient design includes technologies such as concrete core temperature control and a photovoltaic system on the roof. The design aims to achieve German Sustainable Building Council Gold certification for sustainability.

STRABAG Real Estate is also involved in the DonauTower project. In 2019, VR-Bank commissioned STRABAG Real Estate as a service developer to make the building site ready for construction in a project-related development plan. ■

By Bruce Buckley

SWEDEN

STOCKHOLM CENTER

Skanska started construction of a new office building and associated innovation center for Fabega in Flemingsberg, Stockholm. The agreement is valued at \$77 million. The 323,000-sq-ft project is expected to complete in the spring of 2025. Tham Videgard Architects is the architect. In 2021, the companies signed an agreement for Phase 1, which included planning participation and production preparation. The second phase, now underway, includes construction of a 12-story office building with a restaurant, and an innovation center with double height ceilings. There will also be an underground parking area and a green roof. The project aims to achieve BREEAM-SE, level Excellent.



AUSTRALIA

Transit-Oriented Tower

Lendlease began construction on Victoria Cross, a planned commercial and retail precinct sited above a new metro station in North Sydney, Australia. The \$800-million, 42-story office tower was designed by Bates Smart to be net-zero carbon, powered by 100% renewable energy. The project is targeting a Platinum WELL and 6-Star Green Star rating. When completed in 2024, Victoria Cross Tower will accommodate up to 7,000 workers across some 625,000 sq ft of office and retail space. The design provides an expansive lobby and multipurpose hub to facilitate community connection. Outdoor balconies and green spaces aim to promote health and wellbeing.

INDIA

Rising Residences

Leighton Asia, a CIMIC Group company, will build a high-rise residential project in Mumbai, India. The \$100-million project will provide a 56-story residential tower and a 45-story residential tower. The facility features three basements and five podiums across a 4.5-acre site with a total built-up area of approximately 1.6 million sq ft. Construction is scheduled to begin in January 2023 and complete in 2026.

FRANCE

Mixed-Use Development

Eiffage Construction began construction of the Sensorium, a mixed-use development near Vieux-Lille, France. Located at the entrance to the town of La Madeleine, the project includes five buildings, two dedicated to assisted living; 194,000 sq ft of office space on six floors; green roof terraces and market gardens. Other features include photovoltaic panels, a restaurant, courtyard, pedestrian mall and a public garden. Eiffage will deploy four cranes—two for the housing and two for the offices. Some 200 workers will be mobilized on the site. The offices are aiming for BREEAM Excellent - E1C1 Low Carbon Concrete certification. The owner is Bouygues Immobilier and Projectim/Sogeprom. Dehaene + partenairesarchitectes urbanistes is the architect.

Top International Contractors

GENERAL BUILDING		
RANK	FIRM	REVENUE (\$ MIL. *)
1	GRUPO ACS/HOCHTIEF	12,332.0
2	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	9,108.5
3	SKANSKA AB	5,162.6
4	STRABAG SE	4,692.8
5	BOUYGUES	4,135.0
6	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	3,172.5
7	KAJIMA CORP.	2,964.3
8	PCL CONSTRUCTION	2,407.7
9	LENDELEASE	2,233.0
10	FERROVIAL	2,136.3
11	VINCI	1,654.0
12	ORASCOM CONSTRUCTION PLC	1,603.6
13	PORR AG	1,582.1
14	EIFFAGE	1,562.0
15	CHINA RAILWAY CONSTRUCTION CORP. LTD.	1,497.0
16	RENAISSANCE CONSTRUCTION	1,410.2
17	BESIX	1,375.4
18	SHAPOORJI PALLONJI & CO. PRIVATE LTD.	1,232.8
19	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	1,067.8
20	ANT YAPI INDUSTRY & TRADE INC.	990.0
21	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	903.9
22	CHINA RAILWAY GROUP LTD.	830.0
23	BL HARBERT INTERNATIONAL	755.0
24	GRAHAM	752.0
25	ATLAS GROUP	716.0
26	QINGJIAN GROUP CO. LTD.	646.9
27	POWER CONSTRUCTION CORP. OF CHINA	606.3
28	CHINA METALLURGICAL GROUP CORP.	575.5
29	STO BUILDING GROUP INC.	557.0
30	WSP GLOBAL INC.	553.8
31	ESTA INSAAT SANAYI LOJISTIK VE DIS TICARET AS	544.2
32	SEMBOL ULUSLARARASI YATIRIM TARIM PEYZAJ INSAAT	495.3
33	SHANGHAI CONSTRUCTION GROUP CO. LTD.	492.1
34	JIANGSU NANTONG SANJIAN CONSTRUCTION GROUP CO. LTD.	473.9
35	OBAYASHI CORP.	461.0
36	ASLAN YAPI VE TICARET AS	458.4
37	SHANDONG HI-SPEED GROUP CO. LTD.	442.1
38	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	427.7
39	WEBUILD SPA	415.6
40	PENTA-OCEAN CONSTRUCTION CO. LTD.	408.0
41	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	394.4
42	CONSOLIDATED CONTRACTORS GROUP	380.2
43	GS ENGINEERING & CONSTRUCTION	364.0
44	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	356.1
45	ENKA INSAAT VE SANAYI AS	354.1
46	CADDELL CONSTRUCTION CO. (DE) LLC	353.5
47	IMPRESA PIZZAROTTI & C. SPA	352.8
48	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	349.0
49	FLUOR	340.8
50	YANJIAN GROUP CO. LTD.	340.4

Top International Design Firms

GENERAL BUILDING		
RANK	FIRM	REVENUE (\$ MIL. *)
1	ARCADIS NV/CALLISON RTKL	1,180.7
2	WSP GLOBAL INC.	1,127.2
3	DAR GROUP	1,054.6
4	AECOM	883.6
5	SWECO AB	650.0
6	STANTEC INC.	610.9
7	SNC-LAVALIN INC.	573.5
8	ARUP GROUP LTD.	535.8
9	RAMBOLL GROUP A/S	431.3
10	SURBANA JURONG PRIVATE LTD.	270.6
11	GENSLER	238.5
12	JACOBS	220.9
13	IBI GROUP INC.	202.5
14	FUGRO NV	182.2
15	MEINHARDT GROUP INTERNATIONAL	180.1
16	EGIS	169.2
17	TETRA TECH INC.	162.0
18	KHATIB & ALAMI	157.0
19	EXP	151.5
20	ARTELIA	148.9
21	HDR	142.1
22	GHD	141.0
23	COWI A/S	135.7
24	NIPPON KOEI GROUP	133.7
25	KOHN PEDERSEN FOX ASSOCIATES PC	128.4
26	MOTT MACDONALD	119.2
27	SKIDMORE OWINGS & MERRILL	112.7
28	AURECON	112.3
29	AFRY	110.0
30	ATLAS GROUP	98.0
31	EHA CONSULTING ENGINEERS	94.2
32	HOK	87.8
33	CTI ENGINEERING GROUP	77.3
34	WOOD	76.3
35	TPF SA	75.4
36	PERKINS EASTMAN	68.8
37	NORR	67.4
38	PAGE	66.0
39	POPULOUS	64.3
40	JENSEN HUGHES	63.0
41	BLACK & VEATCH	61.9
42	SSH	60.8
43	NKY ARCHITECTS AND ENGINEERS	59.7
44	DEWAN ARCHITECTS + ENGINEERS	55.0
45	KEO INTERNATIONAL CONSULTANTS	52.3
46	ROYAL HASKONINGDHV	51.8
47	THORNTON TOMASETTI	51.6
48	WATG	49.3
49	CONSOLIDATED CONSULT. FOR ENG'G & ENV. (CC GROUP)	47.6
50	ARCHITECTURE & PLANNING GROUP	44.4

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Top International Contractors

COMMERCIAL OFFICES AND BANKS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	4,204.0
2	SKANSKA AB	1,238.6
3	PCL CONSTRUCTION	521.9
4	SHANDONG HI-SPEED GROUP CO. LTD.	442.1
5	LENLEASE	438.6
6	KAJIMA CORP.	400.5
7	OBAYASHI CORP.	351.0
8	STO BUILDING GROUP INC.	343.0
9	SHANGHAI CONSTRUCTION GROUP CO. LTD.	255.7
10	PENTA-OCEAN CONSTRUCTION CO. LTD.	230.9
11	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	156.4
12	YUNNAN CONST. AND INVEST. HOLDING GRP. CO. LTD.	144.5
13	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	121.8
14	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	103.0
15	CHINA RAILWAY CONSTRUCTION CORP. LTD.	97.0
16	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	95.1
17	BAUER AG	83.1
18	IMPRESA PIZZAROTTI & C. SPA	73.1
19	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	66.1
20	ENKA INSAAT VE SANAYI AS	65.0
21	CHINA WU YI CO. LTD.	56.6
22	SHIMIZU CORP.	53.4
23	TAISEI CORP.	51.0
24	JIANGSU NANTONG SANJIAN CONSTRUCTION GROUP CO. LTD.	49.5
25	CMB SOCIETA COOPERATIVA	47.2

GOVERNMENT OFFICES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	917.7
2	BL HARBERT INTERNATIONAL	754.7
3	GRUPO ACS/HOCHTIEF	679.0
4	PCL CONSTRUCTION	477.9
5	FLUOR	340.5
6	LENLEASE	287.5
7	CHINA RAILWAY GROUP LTD.	248.1
8	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	185.8
9	ENKA INSAAT VE SANAYI AS	183.5
10	GAP INSAAT YATIRIM VE DIS TICARET AS	173.7
11	CHINA RAILWAY CONSTRUCTION CORP. LTD.	134.0
12	DPR CONSTRUCTION	109.2
13	YANJIAN GROUP CO. LTD.	99.7
14	SKANSKA AB	97.9
15	WSP GLOBAL INC.	84.2
16	PENTA-OCEAN CONSTRUCTION CO. LTD.	79.3
17	TIANYUAN CONSTRUCTION GROUP CO. LTD.	67.0
18	YUKSEL INSAAT CO. INC.	47.5
19	ECC	47.0
20	CHINA WU YI CO. LTD.	40.6
21	ZAFER TAAHHUT INSAAT VE TICARET AS	40.1
22	KAJIMA CORP.	38.3
23	CHINA GEO-ENGINEERING CORP.	36.5
24	SHANGHAI CONSTRUCTION GROUP CO. LTD.	34.9
25	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	34.0

Top International Design Firms

COMMERCIAL OFFICES AND BANKS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV/CALLISON RTKL	224.5
2	WSP GLOBAL INC.	223.7
3	DAR GROUP	207.2
4	ARUP GROUP LTD.	200.9
5	AECOM	137.6
6	GENSLER	127.1
7	STANTEC INC.	52.8
8	TETRA TECH INC.	45.0
9	SURBANA JURONG PRIVATE LTD.	35.1
10	RAMBOLL GROUP A/S	34.5
11	NIPPON KOEI GROUP	28.8
12	KOHN PEDERSEN FOX ASSOCIATES PC	28.5
13	MEINHARDT GROUP INTERNATIONAL	27.0
14	AFRY	23.3
15	THORNTON TOMASETTI	21.4
16	NBBJ	21.3
17	GRUPO ACS/HOCHTIEF	21.0
18	CTI ENGINEERING GROUP	19.8
19	ARTELIA	19.5
20	HDR	17.9
21	EXP	14.9
22	IDOM	11.3
23	JACOBS	9.9
24	SNC-LAVALIN INC.	9.2
25	AMG AL AMAR CONSULTING GROUP SA	8.8

GOVERNMENT OFFICES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SNC-LAVALIN INC.	317.1
2	WSP GLOBAL INC.	172.3
3	AECOM	153.4
4	JACOBS	84.4
5	ARCADIS NV/CALLISON RTKL	80.9
6	BLACK & VEATCH	61.9
7	DAR GROUP	48.8
8	TETRA TECH INC.	46.0
9	RAMBOLL GROUP A/S	35.6
10	EGIS	30.5
11	ASSYSTEM	28.0
12	STANLEY CONSULTANTS	27.7
13	STANTEC INC.	25.1
14	HDR	20.6
15	KHATIB & ALAMI	19.6
16	THORNTON TOMASETTI	19.0
17	EXP	18.1
18	ARUP GROUP LTD.	16.4
19	SURBANA JURONG PRIVATE LTD.	15.4
20	DAY & ZIMMERMANN	12.6
21	GENSLER	12.3
22	AFRY	11.6
23	SSH	10.5
24	NORR	8.8
25	ARTELIA	8.8

Top International Contractors

EDUCATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	1,663.0
2	SKANSKA AB	1,192.7
3	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	192.6
4	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	79.7
5	POWER CONSTRUCTION CORP. OF CHINA	79.3
6	KAJIMA CORP.	77.4
7	PCL CONSTRUCTION	60.9
8	THE WALSH GROUP	58.7
9	CHINA NATIONAL MACHINERY INDUSTRY CORP.	57.7
10	NANTONG SI JIAN CONSTRUCTION GROUP CO.LTD	55.5
11	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	50.8
12	SACYR	41.3
13	WSP GLOBAL INC.	40.5
14	THE BECK GROUP	38.7
15	YANJIAN GROUP CO. LTD.	37.7
16	OHLA	37.6
17	CHINA ENERGY ENGINEERING CORP. LTD.	33.3
18	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	32.2
19	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	28.3
20	CHINA RAILWAY CONSTRUCTION CORP. LTD.	26.0
21	XPCC CONSTRUCTION & ENGINEERING (GROUP) CO. LTD.	25.1
22	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	24.8
23	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	21.5
24	YUNNAN CONST. AND INVEST. HOLDING GRP. CO. LTD.	20.6
25	ELECTRA LTD.	20.3

Top International Design Firms

EDUCATION		
RANK	FIRM	REVENUE (\$ MIL.**)
1	DAR GROUP	206.7
2	WSP GLOBAL INC.	97.5
3	STANTEC INC.	81.7
4	ARCADIS NV/CALLISON RTKL	65.4
5	SNC-LAVALIN INC.	63.8
6	RAMBOLL GROUP A/S	61.1
7	ARUP GROUP LTD.	52.9
8	AECOM	46.5
9†	EXP	26.9
10	KOHN PEDERSEN FOX ASSOCIATES PC	22.4
11	MOTT MACDONALD	20.0
12	SURBANA JURONG PRIVATE LTD.	18.7
13	NIPPON KOEI GROUP	16.0
14	TPF SA	15.4
15	MEINHARDT GROUP INTERNATIONAL	14.4
16	PERKINS EASTMAN	13.9
17	ARABTECH JARDANEH	13.8
18	HDR	12.3
19	KHATIB & ALAMI	12.0
20	JACOBS	11.3
21	ARTELIA	10.8
22	SSH	9.0
23	AYERS SAINT GROSS	8.5
24	DLR GROUP	7.6
25	KEO INTERNATIONAL CONSULTANTS	7.1

MULTI-UNIT RESIDENTIAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	4,796.4
2	SKANSKA AB	800.5
3	LENLEASE	640.8
4	GRUPO ACS/HOCHTIEF	614.2
5	QINGJIAN GROUP CO. LTD.	586.5
6	CHINA RAILWAY GROUP LTD.	581.9
7	CHINA RAILWAY CONSTRUCTION CORP. LTD.	580.0
8	KAJIMA CORP.	558.9
9	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	475.0
10	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	462.7
11	GS ENGINEERING & CONSTRUCTION	377.7
12	CHINA METALLURGICAL GROUP CORP.	269.5
13	JIANGSU NANTONG SANJIAN CONSTRUCTION GROUP CO. LTD.	266.2
14	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	264.6
15	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	245.4
16	PCL CONSTRUCTION	227.2
17	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	226.7
18	LONGXIN CONSTRUCTION GROUP CO. LTD.	226.2
19	SINOMA INTERNATIONAL ENGINEERING CO. LTD.	218.9
20	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	218.3
21	POWER CONSTRUCTION CORP. OF CHINA	200.2
22	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	160.4
23	TAV CONSTRUCTION	152.7
24	WEBUILD SPA	143.2
25	ZHEJIANG DONGYANG THIRD CONSTR. ENG'G CO. LTD.	113.8

MULTI-UNIT RESIDENTIAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	WSP GLOBAL INC.	133.0
2	AECOM	105.0
3	ARCADIS NV/CALLISON RTKL	94.1
4	STANTEC INC.	82.2
5	RAMBOLL GROUP A/S	73.5
6	DAR GROUP	73.3
7	SURBANA JURONG PRIVATE LTD.	70.0
8	SNC-LAVALIN INC.	68.8
9	ARUP GROUP LTD.	43.2
10	KHATIB & ALAMI	41.1
11	CONSOLIDATED CONSULT. FOR ENG'G & ENV. (CC GROUP)	34.9
12	PARSONS CORP.	25.6
13	EHAF CONSULTING ENGINEERS	23.1
14	CTI ENGINEERING GROUP	23.0
15†	MOTT MACDONALD	17.5
16	KEO INTERNATIONAL CONSULTANTS	14.5
17	TPF SA	14.2
18	NORR	14.1
19	AFRY	14.0
20	EXP	12.8
21	ASSOCIATED CONSULTING ENGINEERS	12.0
22	DEWAN ARCHITECTS + ENGINEERS	11.2
23	MEINHARDT GROUP INTERNATIONAL	10.8
24	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	10.7
25	NIPPON KOEI GROUP	9.8

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†DENOTES WHERE COWI A/S WOULD HAVE RANKED. COWI WAS LEFT OFF DUE TO AN ERROR ON THEIR SURVEY.

Top International Contractors

HOTELS, MOTELS AND CONVENTION CENTERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	1,029.4
2	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	488.8
3	GRUPO ACS/HOCHTIEF	290.0
4	KAJIMA CORP.	260.2
5	CHINA RAILWAY CONSTRUCTION CORP. LTD.	168.0
6	SHANGHAI CONSTRUCTION GROUP CO. LTD.	136.6
7	XPCC CONSTRUCTION & ENGINEERING (GROUP) CO. LTD.	119.9
8	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	115.7
9	SKANSKA AB	112.9
10	LARSEN & TOUBRO LTD.	93.1
11	LENDLEASE	88.7
12	CHINA NATIONAL AERO-TECHNOLOGY INT'L ENG'G CORP.	83.8
13	SEMBOL ULUSLARARASI YATIRIM TARIM PEYZAJ INSAAT	65.8
14	PCL CONSTRUCTION	61.0
15	SSANGYONG ENGINEERING & CONSTRUCTION CO. LTD.	60.6
16	CHINA METALLURGICAL GROUP CORP.	48.1
17	CITIC CONSTRUCTION CO. LTD.	42.9
18	SHENYANG YUANDA ALUMINUM INDUS. ENG'G CO. LTD.	37.8
19	YANJIAN GROUP CO. LTD.	36.3
20	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	34.9
21	POWER CONSTRUCTION CORP. OF CHINA	32.1
22	SUMMA TURIZM YATIRIMCILIGI AS	31.9
23	ENKA INSAAT VE SANAYI AS	29.6
24	QINGJIAN GROUP CO. LTD.	25.4
25	WSP GLOBAL INC.	25.2

RETAIL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	536.6
2	CONSOLIDATED CONTRACTORS GROUP	273.1
3	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	213.9
4	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	175.6
5	SHANDONG ZIJIAN CONSTRUCTION GROUP CO. LTD.	158.1
6	SKANSKA AB	153.1
7	POWER CONSTRUCTION CORP. OF CHINA	111.8
8	JIANGSU ZHONGNAN CONSTRUCTION INDUSTRY GROUP CO.LTD	102.7
9	LIMAK INSAAT SANAYI VE TICARET AS	92.0
10	TAISEI CORP.	92.0
11	PCL CONSTRUCTION	86.7
12	WSP GLOBAL INC.	82.9
13	GRUPO ACS/HOCHTIEF	70.0
14	BAUER AG	62.3
15	CHINA METALLURGICAL GROUP CORP.	55.3
16	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	50.9
17	SEMBOL ULUSLARARASI YATIRIM TARIM PEYZAJ INSAAT	32.9
18	ZHENGTAI GROUP CO. LTD.	32.4
19	HUNAN CONSTRUCTION ENGINEERING GROUP CO. LTD.	31.8
20	CHINA GANSU INT'L CORP. FOR ECON. AND TECH. COOP.	27.5
21	JIANGSU NANTONG SANJIAN CONSTRUCTION GROUP CO. LTD.	22.0
22	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	21.2
23	SHENYANG YUANDA ALUMINUM INDUS. ENG'G CO. LTD.	15.3
24	CHINA NATIONAL COMPLETE PLANT IMP. & EXP. GROUP	15.2
25	CHINA ENERGY ENGINEERING CORP. LTD.	14.4

Top International Design Firms

HOTELS, MOTELS AND CONVENTION CENTERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	SNC-LAVALIN INC.	73.7
2	WSP GLOBAL INC.	40.8
3	DAR GROUP	40.0
4	ARCADIS NV/CALLISON RTKL	39.1
5	WATG	33.8
6	EHAF CONSULTING ENGINEERS	32.1
7	ARUP GROUP LTD.	31.4
8	EGIS	30.4
9	KHATIB & ALAMI	28.8
10	AECOM	23.1
11	GENSLER	17.2
12	DEWAN ARCHITECTS + ENGINEERS	16.8
13	STANTEC INC.	15.1
14	ARTELIA	14.4
15	HKS	12.0
16	RAMBOLL GROUP A/S	11.8
17	REBEL DESIGN+GROUP	10.3
18	SSH	9.5
19	MEINHARDT GROUP INTERNATIONAL	9.0
20	TECNICA Y PROYECTOS SA (TYPSA)	8.5
21	KEO INTERNATIONAL CONSULTANTS	5.3
22	AFRY	4.7
23	PERKINS EASTMAN	4.6
24	POPULOUS	3.9
25	SURBANA JURONG PRIVATE LTD.	3.3

RETAIL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV/CALLISON RTKL	249.5
2	WSP GLOBAL INC.	85.4
3	DAR GROUP	35.1
4	TETRA TECH INC.	25.0
5	AFRY	24.6
6†	STANTEC INC.	22.6
7	CTI ENGINEERING GROUP	21.9
8	SURBANA JURONG PRIVATE LTD.	20.1
9	EHAF CONSULTING ENGINEERS	18.0
10	NIPPON KOEI GROUP	17.9
11	EXP	17.4
12	SNC-LAVALIN INC.	16.8
13	AECOM	16.2
14	KHATIB & ALAMI	15.6
15	RAMBOLL GROUP A/S	14.9
16	ARUP GROUP LTD.	13.6
17	GENSLER	12.8
18	DEWAN ARCHITECTS + ENGINEERS	12.5
19	MOTT MACDONALD	11.7
20	KEO INTERNATIONAL CONSULTANTS	11.6
21	DEERNS	11.4
22	F&M INGEGNERIA SPA	10.9
23	JACOBS	9.4
24	ARTELIA	9.2
25	MEINHARDT GROUP INTERNATIONAL	9.0

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†DENOTES WHERE COWI A/S WOULD HAVE RANKED. COWI WAS LEFT OFF DUE TO AN ERROR ON THEIR SURVEY.

Top International Contractors

CORRECTIONAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	206.0
2	LENDLEASE	103.1
3	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	76.8
4	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	18.1
5	KAJIMA CORP.	12.9

HEALTH CARE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	2,669.0
2	SKANSKA AB	1,111.9
3	PCL CONSTRUCTION	770.5
4	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	769.5
5	KAJIMA CORP.	551.9
6	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	409.7
7	IMPRESA PIZZAROTTI & C. SPA	250.8
8	WEBUILD SPA	199.5
9	LENDLEASE	196.4
10	SACYR	133.3
11	CHINA RAILWAY CONSTRUCTION CORP. LTD.	120.0
12	OHLA	110.5
13	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	89.2
14	CHINA METALLURGICAL GROUP CORP.	82.6
15	CMB SOCIETA COOPERATIVA	81.2
16	SHIMIZU CORP.	80.1
17	POWER CONSTRUCTION CORP. OF CHINA	74.6
18	SHANXI CONSTRUCTION INVESTMENT GROUP CO. LTD.	70.3
19	CHINA JIANGXI INT'L ECON. AND TECH. COOP. CO. LTD.	69.1
20	ZHONGDING INTERNATIONAL ENGINEERING CO. LTD	67.9
21	ENKA INSAAT VE SANAYI AS	61.6
22	SSANGYONG ENGINEERING & CONSTRUCTION CO. LTD.	60.0
23	GAP INSAAT YATIRIM VE DIS TICARET AS	46.6
24	LARSEN & TOUBRO LTD.	44.7
25	WSP GLOBAL INC.	44.4

DISTRIBUTION & WAREHOUSES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	KAJIMA CORP.	500.9
2	STO BUILDING GROUP INC.	207.0
3	SKANSKA AB	157.5
4	ELECTRA LTD.	134.3
5	PCL CONSTRUCTION	120.1
6	GRUPO ACS/HOCHTIEF	119.0
7	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	60.7
8	JIANGSU PROVINCIAL CONSTRUCTION GROUP CO. LTD.	47.7
9	GILBANE BUILDING CO.	36.2
10	POWER CONSTRUCTION CORP. OF CHINA	30.7

Top International Design Firms

CORRECTIONAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	AECOM	17.7
2	NORR	11.0
3	WSP GLOBAL INC.	10.0
4	DAR GROUP	6.5
5	SURBANA JURONG PRIVATE LTD.	1.8

HEALTH CARE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	DAR GROUP	220.9
2	WSP GLOBAL INC.	198.7
3	AURECON	106.4
4	STANTEC INC.	99.0
5	AECOM	93.5
6	HDR	83.0
7	RAMBOLL GROUP A/S	76.7
8	ARUP GROUP LTD.	63.7
9	JACOBS	58.0
10†	TETRA TECH INC.	46.0
11	ARCADIS NV/CALLISON RTKL	38.7
12	MOTT MACDONALD	35.3
13	NIPPON KOEI GROUP	30.4
14	MEINHARDT GROUP INTERNATIONAL	28.8
15	EGIS	28.8
16	EXP	26.9
17	PERKINS EASTMAN	26.1
18	SNC-LAVALIN INC.	24.1
19	SURBANA JURONG PRIVATE LTD.	22.4
20	ARTELIA	17.8
21	AFRY	17.4
22	TPF SA	16.2
23	KHATIB & ALAMI	16.2
24	HKS	15.0
25	ARABTECH JARDANEH	14.3

DISTRIBUTION & WAREHOUSES		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV/CALLISON RTKL	88.0
2	RAMBOLL GROUP A/S	80.2
3	STANTEC INC.	66.8
4	ROYAL HASKONINGDHV	45.1
5	WSP GLOBAL INC.	23.8
6	DAR GROUP	14.4
7	ARTELIA	12.6
8	EXP	11.3
9	ARUP GROUP LTD.	9.7
10	MEINHARDT GROUP INTERNATIONAL	9.0

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Top International Contractors

SPORTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	445.0
2	CHINA RAILWAY CONSTRUCTION CORP. LTD.	289.0
3	SUMMA TURIZM YATIRIMCILIGI AS	199.6
4	OBAYASHI CORP.	110.0
5	SKANSKA AB	61.5
6	PCL CONSTRUCTION	49.1
7	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	47.5
8	WEBUILD SPA	35.4
9	CHINA METALLURGICAL GROUP CORP.	30.2
10	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	30.2
11	LIMAK INSAAT SANAYI VE TICARET AS	25.0
12	TEKFEN CONSTRUCTION AND INSTALLATION CO. INC.	24.0
13	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	22.4
14	SHAANXI CONSTRUCTION ENGINEERING HOLDING GROUP CO. LTD.	19.9
15	KAJIMA CORP.	16.7

ENTERTAINMENT & THEME PARKS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	GRUPO ACS/HOCHTIEF	594.0
2	SEMBOL ULUSLARARASI YATIRIM TARIM PEYZAJ INSAAT	150.4
3	YUNNAN CONST. AND INVEST. HOLDING GRP. CO. LTD.	86.5
4	LARSEN & TOUBRO LTD.	63.7
5	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	49.2
6	JIANGSU NANTONG SANJIAN CONSTRUCTION GROUP CO. LTD.	48.6
7	CHINA METALLURGICAL GROUP CORP.	45.6
8	KAJIMA CORP.	41.2
9	ZHEJIANG CONSTRUCTION INVESTMENT GROUP CO. LTD.	36.5
10	PENTA-OCEAN CONSTRUCTION CO. LTD.	21.5

RELIGIOUS & CULTURAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	272.2
2	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	242.5
3	SKANSKA AB	165.4
4	SEMBOL ULUSLARARASI YATIRIM TARIM PEYZAJ INSAAT	153.6
5	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	35.3
6	OHLA	20.6
7	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	17.2
8	KAJIMA CORP.	16.0
9	YANJIAN GROUP CO. LTD.	14.9
10	WSP GLOBAL INC.	13.3

Top International Design Firms

SPORTS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	POPULOUS	42.3
2	ARUP GROUP LTD.	38.1
3	DAR GROUP	33.9
4	WSP GLOBAL INC.	24.0
5	STANTEC INC.	13.8
6	EGIS	11.8
7	RAMBOLL GROUP A/S	11.7
8	MOTT MACDONALD	7.5
9	IDOM	6.8
10	TECNICA Y PROYECTOS SA (TYPESA)	6.2
11	HKS	6.0
12	AECOM	5.8
13	ME ENGINEERS	5.8
14	ARTELIA	5.7
15	JACOBS	5.5

ENTERTAINMENT & THEME PARKS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	JACOBS	30.8
2	DAR GROUP	22.9
3	AECOM	17.9
4	ARCADIS NV/CALLISON RTKL	16.5
5	WSP GLOBAL INC.	11.3
6	POPULOUS	10.7
7	DEWAN ARCHITECTS + ENGINEERS	10.3
8	MOTT MACDONALD	8.6
9	SURBANA JURONG PRIVATE LTD.	8.5
10	ARUP GROUP LTD.	8.3

RELIGIOUS & CULTURAL		
RANK	FIRM	REVENUE (\$ MIL.**)
1	DAR GROUP	80.8
2	ARUP GROUP LTD.	52.7
3	AECOM	28.6
4	NIPPON KOEI GROUP	25.8
5	WSP GLOBAL INC.	19.8
6	RAMBOLL GROUP A/S	14.9
7	ARCADIS NV/CALLISON RTKL	13.0
8	STANTEC INC.	12.7
9	SURBANA JURONG PRIVATE LTD.	9.4
10†	EGIS	8.5

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Top International Contractors

MIXED USE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD.	834.8
2	LENDLEASE	345.1
3	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	254.7
4	KAJIMA CORP.	181.4
5	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	118.9
6	SEMBOL ULUSLARARASI YATIRIM TARIM PEYZAJ INSAAT	85.9
7	CHINA GEO-ENGINEERING CORP.	71.0
8	BEIJING CONSTRUCTION ENGINEERING GROUP CO. LTD.	57.0
9	HYUNDAI ENGINEERING CO. LTD.	50.9
10	CHINA JIANGSU INT'L ECON. AND TECH. COOP. GROUP LTD.	39.0
11	CHINA NATIONAL MACHINERY INDUSTRY CORP.	29.0
12	CONSOLIDATED CONTRACTORS GROUP	28.7
13	CITIC CONSTRUCTION CO. LTD.	24.8
14	SSANGYONG ENGINEERING & CONSTRUCTION CO. LTD.	21.4
15	LARSEN & TOUBRO LTD.	16.7

Top International Design Firms

MIXED USE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	ARCADIS NV/CALLISON RTKL	269.4
2	AECOM	230.4
3	STANTEC INC.	137.3
4	KOHN PEDERSEN FOX ASSOCIATES PC	64.7
5	DAR GROUP	64.1
6	SURBANA JURONG PRIVATE LTD.	61.2
7	EGIS	59.2
8	MEINHARDT GROUP INTERNATIONAL	49.5
9	ARTELIA	46.8
10	GENSLER	43.3
11	CHINA NATIONAL CHEMICAL ENG'G GROUP CORP. LTD.	18.3
12	RAMBOLL GROUP A/S	13.1
13	SSH	12.9
14	EGG ENGINEERING CONSULTANTS GROUP SA	12.5
15	EXP	12.3

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Australia

Aurecon

Aurecon Centre, Level 8, 850 Collins Street,
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Melbourne, Victoria 8012
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William Cox, Chief Executive Officer
61 3 9975 3000
www.aurecongroup.com

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Noel Kerr, Managing Director
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GHD

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St Leonards, NSW 2065
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Lendlease

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Barangaroo, NSW 2000
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Peddle Thorp & Walker Pty Ltd.

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Simon Parsons, Managing Director Asia Pacific
61 2 9232 5877
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Worley Ltd.

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43506260
www.porr-group.com

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TPF SA

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Belgium
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3223701970
www.tpf.eu

Tractebel

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32 2 773 99 11
www.tractebel-engie.com

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Aecon Group Inc.

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Toronto, Ontario M9W 7K6
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EllisDon Corp.

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Graham

10840 27 STREET SE
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www.GrahamBuilds.com

Hatch Ltd.

2800 Speakman Drive
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www.hatch.com

Pomerleau inc.

521 6e avenue
Saint-Georges, Quebec G5Y0H1
Canada
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418-228-6688
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SNC-Lavalin Inc.

455 René-Lévesque Blvd W
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www.snclavalin.com

Stantec Inc.

Suite 400, 10220 - 103 Ave NW
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www.stantec.com

WSP Global Inc.

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Canada

Alexandre L'Heureux, President & CEO
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Arcplus Group PLC

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community, Minzhi street, Longhua District,
Shenzhen, Guangdong Province,China
Shenzhen, Guangdong Province 518131
China
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Central South Architectural Design Institute Co. Ltd.

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Wuchang District, Wuhan, Hubei 430061
China
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www.century3inc.cn

China Aluminum International Eng'g Corp. Ltd.

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District,Beijing,China
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100093
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www.chalieco.com.cn

China Communications Construction Group Ltd.

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China Design Group Co. Ltd.

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86-10-59098923
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China General Technology (Group) Holding Co. Ltd.

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www.genertec.com.cn

China Geo-Engineering Corp.

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Beijing, Beijing 100093
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www.chinageo.com.cn

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China
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00 86 371 66348000
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China
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China Jiangsu Int'l Econ. and Tech. Coop. Group Ltd.

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China
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<http://www.zjgj.com>.

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

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Nanchang, Jiangxi Province 330083
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www.cjic.cn

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China
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www.nerin.com

China Nonferrous Metal Ind. For. Eng'g and Constr.
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Gurbag Group

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Metag Group

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Nurol Construction and Trading Co. Inc.

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Tekfen Construction and Installation Co. Inc.

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Ames Construction Inc.

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Barr Engineering Co.

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