

ENR THE GLOBAL SOURCEBOOK

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NUMBER 120



HIGH EFFICIENCY Perkins Eastman designed the 2.8-million-sq-ft, mixed-use Kartal Towers complex, near the Sea of Marmara in Istanbul. Its systems are designed to save 30% in energy costs over traditional designs.

PHOTO COURTESY OF PERKINS EASTMAN

Markets Face Uncertain Future

Brexit, the U.S. election, OPEC's move to cut oil production and the increasingly embattled European Union have firms scrambling



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TEBODIN on March 8 sold its operations in the Asia-Pacific region to Archetype Group, a Ho Chi Minh City, Vietnam-based consultancy.

RANK 2016	RANK 2015	FIRM	FIRM TYPE	2015 INT'L REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				IN \$ MIL	% OF TOTAL REV.									
103	109	ATLAS TEXAS CONSTRUCTION, Ankara, Turkey†	EA	69.6	100	100	0	0	0	0	0	0	0	0
104	117	SETEC, Paris, France†	E	68.3	25	14	3	3	1	4	0	75	0	0
105	96	CHINA POWER ENGINEERING CONSULTING GROUP CO. LTD., Beijing, China†	EC	66.9	6	0	0	100	0	0	0	0	0	0
106	98	CHINA HUANQIU CONSTRUCTION & ENG'G CORP., Beijing, China†	EC	65.1	28	0	0	0	0	0	100	0	0	0
107	106	INECO, INGENIERIA Y ECONOMIA DE TRANSPORTE SA, Madrid, Spain†	E	64.0	29	0	0	0	0	0	0	100	0	0
108	115	WATG WIMBERLY INTERIORS, Irvine, Calif., U.S.A.†	A	62.8	81	100	0	0	0	0	0	0	0	0
109	138	THORNTON TOMASETTI INC., New York, N.Y., U.S.A.	EA	62.2	27	96	0	0	0	0	0	4	0	0
110	121	ENERGOPROJEKT HOLDING PLC, Belgrade, Serbia†	E	58.2	77	0	0	92	8	0	0	0	0	0
111	124	KLEINFELDER, San Diego, Calif., U.S.A.†	EA	56.0	18	0	0	0	0	0	45	0	55	0
112	128	ITALCONSULT, Rome, Italy	E	55.5	91	40	0	0	8	4	0	48	0	0
113	143	POSCO ENGINEERING, Incheon, S. Korea	EC	54.8	39	0	0	5	0	5	86	4	0	0
114	118	EMPRESARIOS AGRUPADOS, Madrid, Spain†	EA	54.7	52	1	0	73	0	0	0	1	5	6
115	127	POPULOUS, Kansas City, Mo., U.S.A.†	A	54.3	39	99	0	0	0	0	0	1	0	0
116	114	ACCIONA INFRAESTRUCTURAS, Madrid, Spain†	EC	54.3	66	13	0	14	12	0	0	59	0	0
117	120	H.P. GAUFF INGENIEURE GMBH & CO. KG -JBG, Frankfurt am Main, Germany†	E	49.3	59	1	0	0	27	7	0	58	0	7
118	116	HOCHTIEF AG, Essen, NRW, Germany†	EC	49.0	50	18	0	10	2	6	8	51	2	0
119	123	ARCPLUS GROUP PLC, Shanghai, China†	AE	47.1	9	100	0	0	0	0	0	0	0	0
120	134	PERKINS EASTMAN, New York, N.Y., U.S.A.†	A	46.8	24	100	0	0	0	0	0	0	0	0
121	142	INGEROP, Rueil-Malmaison, France†	E	46.4	21	29	18	0	3	0	0	50	0	0
122	133	CHINA INTERNATIONAL WATER & ELECTRIC CORP., Beijing, China†	EC	45.7	100	10	0	63	23	0	4	0	0	0
123	132	STUDI INTERNATIONAL, Tunis, Tunisia†	E	45.6	88	9	0	9	19	5	0	57	0	0
124	135	PAGE, Washington, D.C., U.S.A.	AE	44.6	32	90	10	0	0	0	0	0	0	0
125	144	SHAKER GROUP, Dubai, U.A.E.†	E	43.2	94	41	13	21	0	0	6	14	0	5
126	136	GEODATA ENGINEERING SPA, Torino, Italy†	E	42.5	94	0	0	5	14	6	0	72	0	0
127	104	ADRIAN SMITH + GORDON GILL ARCHITECTURE LLP, Chicago, Ill., U.S.A.	A	40.6	92	100	0	0	0	0	0	0	0	0
128	129	ECOLOGY AND ENVIRONMENT INC., Lancaster, N.Y., U.S.A.†	ENV	40.5	32	0	0	44	2	0	44	0	0	9
129	139	STANLEY CONSULTANTS INC., Muscatine, Iowa, U.S.A.†	EA	39.8	22	20	0	34	2	9	0	35	0	0
130	141	HKS INC., Dallas, Texas, U.S.A.†	A	39.7	11	100	0	0	0	0	0	0	0	0
131	126	GEOSYNTEC CONSULTANTS INC., Atlanta, Ga., U.S.A.†	E	38.6	14	0	0	7	0	0	25	0	65	0
132	166	YACHIYO ENGINEERING CO. LTD., Tokyo, Japan	E	38.1	20	6	0	20	23	22	0	8	0	8
133	153	PADECO CO. LTD., Tokyo, Japan	E	37.7	99	2	0	0	0	0	0	49	0	1
134	157	PCG PROFABRIL CONSULPLANO GESTAO SGPS SA, Lisbon, Portugal†	E	37.1	82	14	0	0	4	4	25	34	0	0
135	169	DOHWA ENGINEERING CO. LTD., Seoul, S. Korea	EC	36.4	16	0	0	26	5	5	0	57	0	0
136	146	DEWAN ARCHITECTS + ENGINEERS, Abu Dhabi, U.A.E.	AE	36.3	75	100	0	0	0	0	0	0	0	0
137	159	GHAFFARI ASSOCIATES LLC, Dearborn, Mich., U.S.A.†	EA	35.6	27	3	37	0	0	0	0	61	0	0
138	151	ARCHITECTURE & PLANNING GROUP, Abu Dhabi, U.A.E.	AE	35.5	76	100	0	0	0	0	0	0	0	0
139	145	CANNONDESIGN, Grand Island, N.Y., U.S.A.	AE	34.2	15	100	0	0	0	0	0	0	0	0
140	171	POWER ENGINEERS INC., Hailey, Idaho, U.S.A.	EA	32.3	8	0	0	99	0	0	1	0	0	0
141	177	CHODAI CO. LTD., Tokyo, Japan†	E	31.2	13	5	0	3	0	2	0	80	0	0
142	125	NBBJ, Seattle, Wash., U.S.A.†	A	30.0	19	100	0	0	0	0	0	0	0	0
143	182	KUNHWA ENGINEERING & CONSULTING CO. LTD., Seoul, S. Korea	E	29.3	20	0	0	4	6	28	0	44	0	0
144	101	JGC CORP., Yokohama, Kanagawa, Japan	EC	29.0	44	0	0	0	0	0	100	0	0	0
145	130	RCM TECHNOLOGIES INC., Pennsauken, N.J., U.S.A.†	EA	28.0	35	0	0	100	0	0	0	0	0	0
146	161	TTCL PUBLIC CO. LTD., Bangkok, Thailand†	EC	28.0	50	0	0	0	46	0	54	0	0	0
147	168	GETINSA-PAYMA SL, Madrid, Spain†	E	28.0	65	0	0	0	6	3	0	91	0	0
148	**	CHINA CIVIL ENGINEERING CONSTRUCTION CORP., Beijing, China†	EC	27.5	83	7	0	0	0	0	0	93	0	0
149	100	SHANDONG KERUI PETROLEUM EQUIPMENT CO. LTD., Dongying, China	EC	26.8	66	0	0	0	0	0	100	0	0	0
150	140	LAUREN ENGINEERS & CONSTRUCTORS INC., Abilene, Texas, U.S.A.†	EC	26.7	65	0	0	0	0	0	100	0	0	0
151	149	CTI ENGINEERING CO. LTD., Tokyo, Japan†	E	26.4	8	0	0	1	46	11	0	43	0	0
152	160	WONG TUNG PARTNERS LTD., Hong Kong, China†	A	25.7	63	100	0	0	0	0	0	0	0	0
153	147	WALDEMAR S. NELSON AND CO. INC., New Orleans, La., U.S.A.	EA	25.7	34	0	0	0	0	0	59	0	0	0

Top International Contractors

HOTELS, MOTELS AND CONVENTION CENTERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	HOCHTIEF AG	653.0
2	ACS , ACTIVIDADES DE CONSTRUCCIÓN Y SERVICIOS SA	598.3
3	CHINA STATE CONSTRUCTION ENG'G CORP. LTD.	507.6
4	BOUYGUES SA	441.0
5	SEMBOL ULUSLARARASI YATIRIM TARIM PEYZAJ INS.	247.1
6	POLIMEKS INSAAT TAAHHUT VE SAN. TIC. AS	245.0
7	SUMMA TURIZM YATIRIMCILIGI AS	244.4
8	ARABIAN CONSTRUCTION COM.	243.2
9	BEIJING URBAN CONSTRUCTION GROUP CO. LTD.	154.1
10	CHINA RAILWAY CONSTRUCTION CORP. LTD.	150.0
11	OBRASCON HUARTE LAIN (OHL)	132.8
12	KAYI INSAAT SANAYI VE TICARET AS	130.7
13	ILK CONSTRUCTION	124.1
14	LENDLEASE GROUP	106.8
15	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	106.4
16	ANHUI FOREIGN ECONOMIC CONSTRUCTION (GROUP) CO. LTD.	102.5
17	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	92.1
18	CHINA RAILWAY GROUP LTD.	89.6
19	CHINA METALLURGICAL GROUP CORP.	87.0
20	RENAISSANCE CONSTRUCTION	81.7
21	URBACON TRADING AND CONTRACTING	78.7
22	JOANNOU & PARASKEVAIDES GROUP OF COS.	76.9
23	SKANSKA AB	70.0
24	COMBINED GROUP CONTRACTING	65.4
25	CGCOC GROUP CO. LTD.	58.9

HEALTH CARE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	HOCHTIEF AG	1,998.0
2	ACS , ACTIVIDADES DE CONSTRUCCIÓN Y SERVICIOS SA	1,822.3
3	SKANSKA AB	1,159.0
4	PCL CONSTRUCTION ENTERPRISES, INC.	566.0
5	FERROVIAL	402.6
6	LENDLEASE GROUP	322.7
7	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	309.0
8	KAJIMA CORP.	264.4
9	CONSOLIDATED CONTRACTORS GROUP	226.6
10	BOUYGUES SA	213.0
11	THE ARAB CONTRACTORS CO. "OSMAN AHMED OSMAN & CO."	201.0
12	CHINA STATE CONSTRUCTION ENG'G CORP. LTD.	200.8
13	CHINA NAT'L MACHINERY INDUSTRY CORP.	193.3
14	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	176.2
15	PENTA-OCEAN CONSTRUCTION CO. LTD.	159.8
16	OBRASCON HUARTE LAIN (OHL)	128.9
17	YENIGUN INSAAT SANAYI VE TICARET AS	124.0
18	SHIMIZU CORP.	117.0
19	ASTALDI SPA	114.0
20	RENAISSANCE CONSTRUCTION	109.2
21	KAYI INSAAT SANAYI VE TICARET AS	105.7
22	SNC-LAVALIN INC.	105.4
23	SACYR	105.3
24	GS ENGINEERING & CONSTRUCTION	93.4
25	SOCIETÀ ITALIANA PER CONDOTTE SPA	92.9

Top International Design Firms

HOTELS, MOTELS AND CONVENTION CENTERS		
RANK	FIRM	REVENUE (\$ MIL.**)
1	DAR AL-HANDASAH CONSULTANTS (SHAIR & PARTNERS)	89.1
2	WSP PARSONS BRINCKERHOFF	60.7
3	ATKINS	50.2
4	AECOM	45.9
5	GENSLER	45.7
6	ARUP	44.3
7	KHATIB & ALAMI	36.2
8	EHAFC CONSULTING ENGINEERS	30.2
9	RAMBOLL GROUP A/S	27.8
10	EGIS	23.9
11	ASSOCIATED CONSULTING ENGINEERS	21.1
12	KPF ASSOCIATES PC	14.8
13	DEWAN ARCHITECTS + ENGINEERS	13.7
14	HKS INC.	10.5
15	REBEL DESIGN+GROUP	10.4
16	HOK	9.4
17	KEO INTERNATIONAL CONSULTANTS WLL	8.8
18	WONG TUNG & PARTNERS LTD.	7.0
19	IDOM	7.0
20	ARTELIA	6.9
21	SHENYANG YUANDA ALUMINUM INDUSTRY ENGINEERING CO. LTD.	6.1
22	STANTEC INC.	5.9
23	SMALLWOOD, REYNOLDS, STEWART, STEWART & ASSOCIATES INC.	4.8
24	CDI CORP.	4.2
25	JBA CONSULTING ENGINEERS	4.2

HEALTH CARE		
RANK	FIRM	REVENUE (\$ MIL.**)
1	DAR AL-HANDASAH CONSULTANTS (SHAIR & PARTNERS)	199.4
2	WSP PARSONS BRINCKERHOFF	122.1
3	AECOM	117.2
4	STANTEC INC.	112.5
5	HDR	75.3
6	RAMBOLL GROUP A/S	69.5
7	COWI A/S	37.8
8	ARUP	34.6
9	JACOBS	30.0
10	MOTT MACDONALD	29.6
11	SNC-LAVALIN INC.	23.7
12	KHATIB & ALAMI	20.3
13	HKS INC.	17.4
14	ATKINS	16.7
15	HOK	9.8
16	IDOM	9.4
17	KEO INTERNATIONAL CONSULTANTS WLL	8.4
18	CHINA NAT'L MACHINERY INDUSTRY CORP.	7.6
19	TRINITY	6.8
20	CUNINGHAM GROUP ARCHITECTURE INC.	6.6
21	EGIS	6.4
22	ROYAL HASKONINGDHV	5.5
23	ÂF	5.0
24	AEDAS	4.4
25	CDI CORP.	4.2

**BASED ON 2015 CONTRACTOR AND DESIGN FIRM REVENUE FROM GENERAL BUILDING AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS.

**BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2015 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK MARKET SURVEY. SEE ENR.COM FOR COMPLETE LISTINGS.