

40	Project Name	Brief Description of the Project	Country	Type of Proje	et Typ	pe of Se	rvices		Sec. 1984	Japanes	Type of F	Inance N	lon-Japan
Otal	e and Hatchobaru geothermal development projects	Consulting services for exploration, drilling supervision, well testing, reservoir evaluation, conceptual design, FCRS design, environmental services, construction supervision, testing, commissioning, reservoir monitoring, Kyushu EPC.	2		PFS F/S	C D	De M	O LE	S JB JE	SL IL	EC NE Pr	LG WB U	UN LÀ
55/070590		[Service Period: 1968 to date]	Japan	0000	3 0	9 9		9					
		Consulting services for the project implementation, well evaluation, basic design, detailed design, bidding documents, drawing review: 30MW unit for Yamagawa, 30MW Ogiri and 25 MW Takigami, Kyushu EPC. [Services Period: Nov. 1992 to Nov. 1996]	Japan	330 0	3								
Proc	uction well development for the Mori geothermal power plant	Re-evaluation of the geothermal resource, selection of drilling targets: The project succeeded in the production drilling and in the recovering of power output from less than 20 MW to more than 30MW, Hokkaido EPC. [Service Period: Oct. 1990 to Feb. 1992]	Japan	0		•							
	valuation of resourcepotential of the Kakkonda and ukawa geothermal fields in Tohoku area	Re-evaluation of resource potential by forecasting simulations and selection of drilling targets for sustainable operation of the Kakkonda and Matsukawa geothermal powerplants. [Service Period: Apr. 2007 to Feb. 2009]	Japan	0	0						0		
Geol	hermal promotion survey at the Onsen-cho geothermal field,	Geological, geophysical (MT), geochemical survey, exploration well drillings, environmental assessment and comprehensive evaluation for small-scale geothermal power project at the Onsen-cho geothermal field, Hyogo Prefecture as a	Japan	a									
ROLL COM	no Prefecture in Japan hermal promotion survey at the ikedako-tobu geothermal field,	promotion survey in Japan. [Service Period: Jun. 2005 to Mar. 2007] Geological, geophysical (MT), geochemical survey, exploration well drillings, production tests, environmental assessment and comprehensive evaluation including reservoir simulation study for small-scale geothermal power project (1500 kW)	1		2								
Kago	shima Prefecture in Japan	at the ikedako-tobu geothermal field, Kagoshima Prefecture as a promotion survey in Japan. [Service Period: Jun. 2007 to Mar. 2010] Resource potential evaluation by means of the Stored Heat Method with a statistical analysis, Monte Carlo Analysis, and recommendation of appropriate power plant output and basic development plan for the Chingahui geothermal field	Japan	9									
the (urce assessment of Chingshul Geothermal Power Generation Project	In Talwan. [Service Period: Jan. 2008 to Jun. 2008]	Taiwan	0									
Mas	er plan for geothermal power development	Formulation of the master plan rank and assignment of priorities to fields for the development of geothermal resources. [Service Period: Mar. 2006 to Sep. 2007]	Regional: Indonesia	0	0			0		0			
	ibility study for units 4, 5, and the Dieng geothermal power development	Feasibility studies including geoscientific data review, resource assessment by numerical reservoir simulation, viability studies for the power facilities gathering-reinjection system and economic-financial evaluation. [Service Period: Mar. 2006 to Sep. 2006]	Indonesia	G							•		
Due (diligence to assess participation in the Sarulia geothermal development	Due diligence and owner's engineer geoscientific review, conceptual and numerical modeling 100MW Namora I Langit and 200MW Silangkitang. Create reservoir exploitation plan and production-reinjection well drilling programs, check &	Indonesia	0000	3								
A PROPERTY.	wmer's engineering services for the consortium MEDCO-itochu-Ormat arch cooperation for small scale geothermal exploitation in	review of contractor's work. [Service Period: from 2007] Feasibility studies of off-grid electric developments using geothermal resources for rural electrification addressed to establish a platform for a regional independent economy of low CO2 and other green house gases emission.		0000	7	9			++				
he e	astern part of Indonesia	[Service Period: Nov. 1997 to Mar. 2002]	Indonesia	3		-1							
Ulub	elu geothermal power plant project	Integrated consulting services to construct 55 MW x 2 geothermal power plant including, review of resource feasibility study, basic design, assistance in bidding, drawing review and consulting for construction and O&M of the power plant and switchyard and cross-country transmission lines, PLN. [Service Period: Mar. 2007 to Jan. 2013]	Indonesia	6									
ahr	ndong geothermal power plant project (unit-3)	Integrated consulting services to construct 20 MW geothermal power plant including, review of resource feasibility study, basic design, assistance in bidding, drawing review, and consulting for construction of the power plant, switchyard PLN. [Service Period: Aug. 2005 to Feb. 2010]	Indonesia	a		0							
Rea	urce assessment for the Kamojang and Hululais geothermal fields	Reservoir simulation to evaluate sustainability of 230 MW powerplant operation for the Kamojang geothermal field in West Java and preliminary resource assessment for the Hululais geothermal field in Sumatra.	Indonesia	8									
Sarr	city building of geothermal power development technology	[Service Period: Feb. 2012 to Mar. 2013] Technical transfer of geothermal power exploration and evaluation technologies to staffs of the Governmental Institute, Center for Geological Resources (CGR) in Indonesia.	25 MON 5995			T I							1 1
n In	donesia	[Service Period: Oct. 2011 to Mar. 2013]	Indonesia	0									
	ibility study of the Cabalian geothermal power project, hem Leyte	Feasibility study including geoscientific data review, resource assessment, conceptual design of power and transmission lines, and economic evaluation of the project. [Service Period: Sep. 2001 to Jan. 2002]	Philippines	0000	3	i i		0					
iori	hern Negros geothermal power plant project	Consulting services to PNOC-EDC for the project implementation including market study, review of resource feasibility study, and FCRS design, construction and O&M of the power plant, associated switchyard and transmission lines of 49 MW Northern Negros geothermal power plant. [Service Period: Jan. 2001 to Jun. 2008, JBIC]	Philippines	a					00				
eh	bilitation of the Tiwi and Mak-Ban geothermal power plants	Consulting services for the formulation of a rehabilitation program and the preparation of bidding documents, drawing review and construction supervision of 55MW x 8 at Tiwi and 55MW x 8 at Mak-Ban.		ā									
Str. or	y for a geothermal power development project at	[Service Period: Apr. 1997 to May. 2003]	Philippines										
ltta	ACT A DESCRIPTION OF THE PROPERTY OF THE PROPE	Preliminary feasibility study consisting of geological, geophysical, geochemical surveys, resource potential evaluation, discussion on implementation plan, social and environmental aspects, and economical analysis. [Service Period: Aug. 2009 to Feb. 2010]	India	<u></u>					-	1			
eat XD	ibility study of the Kizildere rehabilitation and neion geothermal project	Feasibility study for rehabilitation and expansion of the Kizildere geothermal power plant taking into consideration the severe scaling and the insufficient return of hot water into the reservoir. [Service Period: Aug. 2001 to Jan. 2002]	Turkey	3									
_	ibility study of the izmir district heating system	Feasibility study for utilization of geothermal and fresh water resources to provide the izmir district with a heating system as well as to study the district heating systems of several municipalities of Turkey.	Turkey	a									
ilot	study for infrastructure to protect the environment and to promote economic	[Service Period: Sep. 1999 to Mar. 2000] Preparation of a master plan to enhance the utilization of geothermal energy in the countries under the Puebla-Panama Plan, in order to sustain the promotion of geothermal energy utilization projects included the execution of two	Regional:			1							
	th: The utilization of geothermal energy in the Puebla-Panama Plan region	feasibility studies and the study to standardize geothermal technologies of the region. [Service Period: Mar. 2003 to Nov. 2004]	Plan Puebla Panama	9	9				9				
00	ibility studies, 75MW Los Humeros, 50MW Cerritos Colorados, WW Cerro Prieto and 100MW Los Azufres geothermal complex	Geoscientific data review, conceptual and numerical models, reservoir assessment, reservoir exploitation plan and programming of plant retirement and new additions, production-reinjection drilling programs, hot reinjection, pipeline network system, scale deposition prevention-mitigation recommendations, selection energy conversion scheme, economic-financial evaluation. [Service Period: 2004 to 2007]	Mexico	(3)	•	0			•				
	neering for the Zunii-I and Zunii II geothermal power developments engineering services for the Amatitian geothermal development	Geological, geophysical, geochemical exploration of the Zunii-I and II areas and of the Amatitian geothermal area (20MW private project), conceptual model, well targets, drilling supervision, numerical modeling to testing, scale deposition, economic-financial evaluation. [Service Period: Several periods from 1989 to 1998 Zunii and from 1989 to 2007 Amatitian]	Guatemala	(6)		0		0					0 0
	neering for the Berlin geothermal project	CSAMT (Controlled Source Audio-Magneto Telluric) and MT (Magnetotelluric) studies to assess the extent of the exploitable reservoir of the Berlin geothermal field, conceptual modeling and selection of production and reinjection targets.	El Salvador	a									
ue	diligence to assess strategic partnership of	[Service Period: Jun. to Sep. 2004] Evaluation of the geothermal concessions of LAGEO, its development plan and assistance in the economic-financial evaluation of the proposed partnership. [Service Period: Nov. to Dec. 2001]	Section 22 (0.00) Section			1							
yus	hu Electric-Sumitomo with LAGEO		El Salvador	9									
ngi	neering services for the Miravalles geothermal project	Consulting services as ICE's Owner's Engineer for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision of 55MW Miravalles geothermal power plant. [Service Period: Feb. 1988 to Aug. 1994]	Costa Rica	0									
88.1	ibility study for the 30 MW Las Pallas geothermal development	Geoscientific data review to create conceptual/numerical models to assess reservoir capacity of 30MW of power generation. Recommendations on exploitation plan, well drilling programs, hot reinjection and pipeline network system, studies on scale deposition, selection and design of the energy conversion scheme, economic-financial evaluation of the whole project. [Service Period: Mar. 2003 to Nov. 2004]	Costa Rica	(3)	0			6					
e e/	ibility study of the Laguna Colorada geothermal development	Geoscientific data review to create conceptual/numerical models to assess reservoir capacity of 100 MW of power generation. Recommendations on exploitation plan, well drilling programs, hot reinjection and pipeline network system,	Bolivia										
l mar	sement of the feasibility of geothermal utilization in Peru and pre-feasibility	studies on scale deposition, selection and design of the energy conversion scheme, economic-financial evaluation of the whole project. [Service Period: Oct. 2007 to Jan. 2008] Assistance to JBIC in the assessment of geothermal utilization in Peru. Pre-feasibility studies of the Borateras and Callentes geothermal fields; Geological, geophysical (MT), geochemical exploration, construction of the conceptual model,	16.5.1600=	.0			H						\dashv
studi	ss for the Borateras and Callentes geothermal developments	exploratory well targets, estimation of potential and economic-financial evaluation. [Service Period: Oct. 2007 to Jan. 2008 Boraterasi and from Oct. 2007 to Mar. 2008 Callentes]	Peru	3									
	hermal power development in Eastern Africa: ange of Know-How on "Public Private Partnership" Models	Case studies of successful stories in East Asia and Central America regarding which types of public-private partnerships could effectively and efficiently bring geothermal power generation to the geothermal East African countries. [Service Period: Feb. to Dec. 2004]	Regional: East Africa	6									
	minary geothermal master plan for the utilization of hermal energy in Kenya, Uganda and Tanzania	Under the Sub-Saharan program for the utilization of renewable resources, preliminary master plan study utilizing GIS technology in combination with the study of the availability and potential of geothermal resources in the three countries, in order to give priorities to prospective sites of geothermal potential and to contribute to the local development. [Service Period: Nov. 2007 to Jun. 2008]	Regional:	(3)		i.							
1111111111	neering services for the Olkaria geothermal development	I: Olkaria I, II, II and IV, conceptual / numerical models, 60MW Olkaria-II expansion study. II: Olkaria IV supervision, well testing. III: conceptual / numerical model of the three connected reservoirs, optimize exploitation study,	East Africa Kenya										
More	Langano Geothermai Field Appraisal Project	evaluation of the rehabilitation, repowering or substitution of Olkaria-I, IV, Feasibility study of the optimized exploitation scheme. [Service Period: May. 2005 to Dec. 2008] For the purpose of contributing to the implementation of the TICAD-IV (the 4th Tokyo International Conference for African Development) Program, feasibility study including 4 deep directional well drillings, evaluation of geothermal				100							
	70 170 170 170 170 170 170 170 170 170 1	resource, planning of cotimum geothermal development, cost estimation, financial and aconomic evaluation, [Service Pariod: Nov. 2010 to May, 2014 (scheduled)]	Ethiopia	•		0	•			0		0 0	
am	chatka geothermal power plant development project	Feasibility study including site survey, evaluation of geothermal resource, planning of optimum geothermal development (20MW x 2), cost estimation, financial and economic evaluation for the Mutnovsky geothermal field. [Service Period: Jul. 1996 to Jun. 1997]	Russia	6								0	
Aes	er Plan for Development of Geothermal Energy in Peru	The objective of this study project was to create a nationwide geothermal power development plan for Peru in order to promote and accelerate the geothermal energy development and exploitation program in Peru.	Peru	a									
)ati	Collection Survey for Geothermal Power Plant project	[Service Period: Nov. 2010 to Jun. 2012] The purpose of this survey was to study geothermal power development plans in West Nusa Tenggara Province, Indonesia.	1000000										
EQ		[Service Period: Mar. 2011 to Nov. 2011]	Indonesia	0									
eas	ibility study for the Tulehu Geothermal Power Plant project	The purpose of the Preparatory Survey was to prepare feasibility study documents for the Tulehu geothermal power development project. [Service Period: Jul. 2010 to Oct. 2011]	Indonesia	G									
P. 12 / 2 / 5 / 5 /	construction project of the Matsuura coal-fired thermal	Consulting services to Kyushu EPC for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for 700MW Matsuura coal-fired power project. [Service Period: Nov. 1979 to Jul. 1989]	Japan	0							•		
ew	construction project of the Relhoku coal-fired thermal	Consulting services to Kyushu EPC for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for 700MW x 2 Relinoku coal-fired thermal power project.	Japan										
	construction project of the Karita coal-fired pressurized fluidized	[Service Period: Nov. 1991 to Jul. 2003] Consulting services to Kyushu EPC for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for 360 MW Karita coal-fired pressurized fluidized bed	2000 Million (1911)										
ed	combustion (PFBC) combined cycle thermal power station	combustion (PFBC) combined cycle thermal power project. [Service Period: Apr. 1992 to Jul. 2001]	Japan	U									
	construction project of Shin-Olta combined cycle thermal power station	Consulting services for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for Shin-Olta combined cycle thermal power project. Plant Capacity: 1st system: 115 MW x 6, 2nd system: 217.5 MW x 4, 3rd system: 245 MW x 3. [Service Period: Nov. 1988 to Aug. 1998]	Japan	0									
epl	acement projects of major control systems for nal power stations in Kyushu EPC	Consulting services to Kyushu EPC for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for the replacement project of major control systems for the following thermal power stations. [Service Period: 1994 to date]; Karatsu oil-thermal No.3 unit, Sendel oil-thermal No.1 unit, Shin-Cita combined cycle No.1 system No.2, 4, 5 & 6 units.	Japan	0		•	•						
xte	nsion projects of diesel power stations by	Consulting services to Kyushu EPC for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for the following dissel power plant projects for isolated islands. [Service Period: 1996 to 2006];	-	<u> </u>								1	
	hu EPC for Isolated Islands nsion project of diesel power plants by Okinawa EPC for	Tatsugo No.5 & 6 units, Shin-Iki No.4 unit, Shin-Tanegashima No.4 unit, Shin-Kikal No.5 & 6 units, Shin-China No.6 unit, Toyotama No.5 unit, Shin-Arikawa No.6 unit, Shin-Tokunoshima No.6 unit, Koshikijima Dalichi No.3 unit and many other extension projects for isolated islands. Consulting services to Okinawa EPC for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for ishigaki daini diesel power plant for ishigaki island.	Japan	0									
hig	aki Islands	[Service Period: Mar. 1994 to Jun. 1995]	Japan	U									
lew	construction project of the ishikawa gas-turbine power plant	Consulting services to Okinawa EPC for the project implementation including drawing review and construction supervision for ishikawa gas-turbine power plant. [Service Period: Jun. 1991 to Jun. 1992]	Japan	0		•					0		
eh	bilitation project of the Kakanj coal-fired thermal power plant	Consulting services to Elektroprivreda (EPBIH) for the project implementation including survey and planning of rehabilitation, study regarding environmental improvement, bidding documents, bidding assistance, bid evaluation, drawing review, and construction supervision for the 110MW (Unit 5) and 230MW (Unit 7) rehabilitation project. [Service Period: Aug. 2001 to Dec. 2006]	Bosnia	6									
leh	bilitation project of the Sucat thermal power plant	Assistance in finance procurement and consulting services for diagnostics, study and planning of rehabilitating items, design, bidding documents, drawing review for O&M for the 150 MW (No.1) and 300 MW (No.4) in stage 1 and for	Herzegovina Philippines										
	bilitation and improvement project of co-generation system for	200 MW (No.2) and 200 MW (No.3) of Sucat thermal power plant. [Service Period: Feb. 1988 to Dec. 1990 for 1st stage and Jan. 1990 to Jun. 1995 for 2nd stage] Study of basic project conditions, project implementation plan, project effects, economy, replication to similar projects and project influence to other industrial and social fields. Study for the district heating and heat supply authority of	1000	9									
юп	nal power plants	Botosani City. [Service Period: Sep. 2000 to Mar. 2001]	Romania	U	0						•		
ew	construction project of the Koshikijima wind power plant	Consulting services to Kyushu EPC for the project implementation including scrutiny of wind conditions, basic design, bidding documents, drawing review and construction supervision for 250 kW Koshikijima wind power project. [Service Period: Dec. 1986 to Mar. 1990]	Japan				•						
ew	construction project of the Noma wind power plant	Consulting services to Kyushu EPC for the project implementation including scrutiny of wind conditions, basic design, bidding documents, drawing review and construction supervision for 10 units x 750 kW Noma wind	Japan										
/In	power development projects for IPPs	power project. [Service Period: Oct. 1992 to Mar. 2002] Consulting services as owner's engineer to independent Power Producers (IPPs) for the project implementation including drawing review and construction supervision for the following wind power development. [Service Period: 2000 to	A DESCRIPTION OF THE PERSON OF										
		2001]; 750 kW x 6 unit wind turbines for Shimameki wind farm in Hokkeldo prefecture (2000) and 1,500 kW x 9 unit wind turbines for Sarakitomanal wind farm in Hokkeldo prefecture. (2001).	Japan	W		9							
VIO	power development projects for local governments	Consulting services to local governments for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for the following wind power development. [Service Period: 1999 to 2006]; 750 kW wind turbine for ETO Land Hayahino-Mine of Kitakata-town in Miyazaki prefecture (1999), 300 kW x 1 unit and 600 kW x 2 unit wind turbines for Sazanka-kogen at Konagai-cho in Nagasaki prefecture (2003) and 300 kW x 2 unit wind turbine for Futae-fishing port of Itsuwa-cho in Kumamoto prefecture (2006).	Japan			•	0						
Vin	power development project in Northern Luzon	Consulting services to PNOC-EDC for feasibility study of 42 MW Northern Luzon wind power development. [Service Period: Jul. 2001 to Mar. 2002]	Philippines						•				
LIN .	power development project in inner Mongolia	Consulting services for optimum arrangement of wind turbines using RIAM-COMPACT® application and generation energy forecast for wind power generation in inner Mongolia.	**************************************										
AIL		[Service Period: 2005 to 2006] Wave prediction system (real-time) for LNG ships for Kitakyushu LNG Co. ltd. And Otta LNG Co. ltd.	Japan			<u></u>					<u> </u>		
	DOMORCHON RANKINGH MALI MILITA		Japan	TWA STATE OF THE S	I ii ii	1)		(i)	4 1	E 1			
Vev	prediction system for LNG ships	[Service Period: 2010 & 2012]	Japan			1 1			1 1	1 1		1 1	1 4
Wav	d chips fuel boller project	[Service Period: 2010 & 2012] Consulting services as owner's engineer for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for wood chips fuel boiler project. [Service Period: Apr. 2002 to Mar. 2004]	Japan	0		0	•					V	The same of the sa

MAJOR EXPERIENCE										
No Project Name	Brief Description of the Project	Country	Type of Project	Type o	f Services	0.16 18	Japanece	Type of Finan	Non-Jap	anese
T20 Receiving system for woody blomass fuel	Consulting services to Kyushu EPC for the project implementation including bidding documents, drawing review and construction supervision for receiving system for woody biomass fuel of the Relhoku thermal power station. [Service Period: Jan. 2010 to Mar. 2011]	Japan	0						WS ON IA	
	Consulting services to Kitakata town office, Miyazaki Prefecture for the feasibility study of a 10 MW x 2 animal waste power generation project. [Service Period: Oct. 1995 to Mar. 1998]	Japan	0	•		0				
T22 Electric power technical regulations and standards for thermal power plants in the Socialist Republic of Vietnam	Consulting services for establishment of electric power technical regulations and standards for thermal power plants in the Socialist Republic of Vietnam. [Service Period: Mar. 2009 to Jan. 2013]	Vietnam	0		•					
Replacement project of 220 kV GIS at Sendal thermal power station	Consulting services to Kyushu EPC for the project implementation including basic design, detailed design, bidding documents, drawing review and construction supervision for replacement project of 220 kV Gas insulated switchgear (GIS) at Sendal thermal power plant. [Service Period: May. 2007 to Aug. 2013]	Japan	0 0	•	•					
T23 Replacement project of 220 kV GIS at Sendal thermal power station T24 Transmission network system for future geothermal development	Feasibility study of optimum transmission network system for future geothermal development in the Republic of Rwanda. [Service Period: Jul. 2011 to Feb. 2012]	Rwanda	3 B	•						
Pre-feasibility study for Geothermal Power Development in Canakkale-Tuzia Field, TURKEY	Consulting services for a proper development procedure and generation capacity, based on the delineation, evaluation and development strategy of the geothermal resources in this field.	Turkey	6 8							•
126 Expansion project of Las Pallas II geothermal power plant and Boringuen geothermal power plant	Feasibility study including site survey, evaluation of geothermal resource, conceptual design of gathering system / power plant / transmission line / planning of optimum geothermal development, cost estimation and financial and economic evaluation. [Service Period: Jul. 2011 to date]	Costa Rica	0	•						
C1 Engineering services for the Omaru pumped storage power project	Engineering services to Kyushu EPC for site survey, planning and detailed design: Type: Upper: Rock-fill Lower: Gravity, Height: Upper 69 m, Lower 52 m, Head: 652 m, Capacity 1,200MW Omaru pumped storage power project under construction to be completed in 2008. [Service Period: Jan. 1994 to Dec. 2007]	Japan		0 0	0 0	•		ő		
C2 Engineering services for the Uchinoura hydropower project	Engineering services to Kyushu EPC for site Survey, planning and design including model test of spiliway: Type: Run-of-river, Discharge: 3.2 m3/s, Head: 128.1 m, Watershed Area: 17.8 km2, Capacity: 3.3 MW Uchinoura hydropower project, Location: Kagoshima Pref. Commissioned in Jun. 1989. [Service Period: Apr.1986 to Jun.1989]	Japan	3			•				
C3 Engineering services for the Oyodogawa No.2 hydropower project	Engineering services to Kyushu EPC for the site survey, planning, detailed design and construction supervision for additional 38.6MW plant: Type: Reservoir dam and canal, Discharge: 149.5 m3/s, Head: 56.3 m, Watershed area: 1,373.6 km2, Capacity: from 30.6MW to 69.2MW Oyodogawa No. 2 hydropower project, Location: Miyazaki Pref. Commissioned in May 1985. [Service Period: Apr. 1982 to May. 1985]	Japan	1	• •	•	•		•		
C4 Engineering services for the Selgo hydropower project	Engineering services to Kyushu EPC for site survey, planning, detailed design and construction supervision for additional 18.6 MW plant, Type: Reservoir dam and canal discharge: 120.0 m3/s, Head: 27.3 m, Watershed area: 647.8 km2, Capacity: from 8 MW to 26.6 MW Salgo hydropower project, Location: Miyazaki Pref. Commissioned in Aug. 1983. [Service Period: Apr. 1980 to Aug. 1983]	Japan	0	•	•					
C5 Engineering services for the Shin-Kawabaru hydropower project	Engineering services to Kyushu EPC for site survey, planning and design including model test of spiliway: Type: Canal and dam, Discharge: 45.0 m3/s, Head: 55.5 m, Water-shed Area: 362 km2, Capacity: 21 MW, Location: Miyazaki Pref. Completion: 1993. [Service Period: Apr.1990 to Jan.1993]	Japan	0	•	•					
C8 Engineering services for the Shin-Itaukigawa hydropower project	Engineering services to Kyushu EPC for site survey, planning and detailed design for addition of 7MW generator including design of waterway bridge, temporary facilities, etc. Type: Run-of-river, Discharge: 20.0 m3/s, Head: 90.7 m, Watershed Area: 205 km2, Location: Kumamoto Pref. Capacity: From 8.3 MW to 15.3 MW. [Service Period: Apr.1993 to Jul.1996]	Japan	0	•	٠	0		0		
C7 Engineering services for the Ryumon Dam	Engineering services to the Ministry of Construction for planning and design: Type: Gravity/rock-fill, Height 99.5/30.9 m, Length: 375/252 m, Catchment Area: 26.5 km2, Storage Capacity: 42,500 x 103 ton, Location: Kumamoto Pref. [Service Period: Apr.1996 to Jan.2001]	Japan	3	•	00	•				
C8 Engineering services for the Narubuchi Dam	Engineering services to the Fukuoka Prefecture Government for field survey, investigation, planning and detailed design: Purpose: Flood Control and water supply, Type: Gravity, Height: 67.4 m, Length: 308 m, Catchments Area: 6.8 km2, Storage capacity: 4,400 x 103 ton, Location: Fukuoka Pref. [Service Period: Apr. 1997 to Mar. 2002]	Japan	0	•	0 0	•				
Engineering services for the Indonesia Rural electrification project (Technical Assistance Component for Mini-Hydro)	Engineering services to PLN (PERSERO) for the review of the system and methodology of potentiality study and project preparation for mini-hydro power plant, identify problems and provide recommendations on the system and methodology. Review the existing Pre-F/S and F/S and D/D for PLN to enable to preparation of finance. [Service Period: Oct.1995 to Sep.1996]	Indonesia	0	•				0		
C10 Engineering services to investigate the situation of existing hydropower plants	Engineering services to NPC for the purpose of estimating an accepted method in Japan of reducing construction costs of hydro power plants. Completion: Feb. 2001 by JEPOC finance. [Service Period: Aug. 2001 to Jan. 2002]	Philippines	0							
C11 Feasibility study of the Catuiran hydropower development project	Engineering services to NPC for site survey, serial photographic mapping, discharge measurement, planning and design: Type: Run off river, Discharge: 15m3/s, Head: 135.40m, Watershed area: 155km2, Capacity: 17.8MW, Location: Mindoro, Completion: Jan. 2003 by JETRO finance. [Service Period: Aug. 2002 to Jan. 2003]	Philippines	1	•			•			
C12 Feasibility study of the Timbaban hydropower development project	Engineering services to NPC for site survey, aerial photographic mapping, discharge measurement, planning and design: Type: Run off river, Discharge: 16m3/s, Head: 173m, Watershed area: 84km2, Capacity: 23.5MW, Location: Aklan, Completion: Jan. 2004 by JETRO finance. [Service Period: Aug. 2003 to Jan. 2004]	Philippines	0	•						
C13 Engineering services for the rural electrification program through hydropower resources	Engineering services to the Uganda government for the site survey, power demand and supply plan, electric situation of rural area, possibility of small-hydro for rural electrification: Type: Run off river, Discharge: 4.0m3/s, Head: 15~45m, Capacity: 2.0MW in total, Completion: Feb. 2006 by ECFA finance. [Service Period: Nov. 2005 to Feb. 2006]	Uganda	①	•				•		
C14 Feasibility study of IPP through hydropower projects	Site survey, hydrological study, geological evaluation, optimization study of development scale, review of pre-feasibility study, Type: Pondage type, Discharge: 32m3/s, Head: 170m (approx.), Capacity: 32MW, Completion: May. 2007. [Service Period: Aug. 2006 to May. 2007]	North Vietnam	3	•						
C15 Engineering service for the Osuzu hydropower plant project	Engineering service to Kyushu EPC for detailed design of the hydropower plant: Type: Pondage type, Discharge: 1.33m3/s, Net head: 31.80m, Capacity: 330kW, Location: Miyazaki pref., Completion: Mar. 2009. [Service Period: Dec. 2006 to Mar. 2007]	Japan	(3)		•					
C18 Engineering service for the Hikawa dam renovation project	Engineering service to Kumamoto Pref. for pre-feasibility study, feasibility study and detailed design of the renovation project: Dam height: 58.5m (56.5m), Length of the dam: 202.0m, Volume of the concrete: 118,000m3, Total storage capacity: 7,100,000m3, Effective storage capacity: 5,900,000m3, Completion: Jun. 2010. [Service Period: 1980 to 2010], Spec before the renovation.	Japan	0		0					
Environmental impact assessment in relation to construction of nuclear power plant	Survey of present environmental conditions (atmosphere, odor, water quality, soil noise, vibration, meteorology, topography and geology, fauna and flora, ecosystem, natural scene, and other social environment and simulation analysis, 1,590 MW Nuclear Power Plant. [Service Period: Apr. 2003 to Mar. 2010]	Japan	8			•				
Environmental impact assessment in relation to construction of geothermal power plant	Survey of present environmental conditions (atmosphere, odor, water quality, soil, noise, vibration, meteorology, topography and geology, fauna and flora, natural scene, hot spring and other social environment and simulation analysis, 55 MW Geothermal Power Plant. [Service Period: Apr. 1981 to Mar. 1995]	Japan	6							
Environmental impact assessment in relation to construction of coal-fired thermal power plant	Survey of present environmental conditions (atmosphere, odor, water quality, soil noise, vibration, meteorology, topography and geology, fauna and flora, ecosystem, natural scene, and other social environment and simulation analysis, 1,000 MW Coal-fired Thermal Power Plant. [Service Period: Apr. 1999 to Mar. 2001]	Japan	(1)			0				
Environmental impact assessment in relation to construction of pumped storage power plant	Survey of present environmental conditions (water quality, soil noise, vibration, meteorology, topography and geology, fauna and flora, natural scene, and other social environment and simulation analysis) for 1,200 MW Pumped Storage Power Plant. [Service Period: Apr. 1993 to Mar. 1999]	Japan	H			0				
Environmental impact assessment in relation to construction of dam	Survey of present environmental conditions (water quality, soil noise, vibration, meteorology, topography and geology, fauna and flora, natural scene, and other social environment and simulation analysis). [Service Period: Apr. 1996 to Mar. 2005]	Japan	0			0				
Environmental impact assessment in relation to the construction of power transmission system	Survey of present environmental conditions (fauna and flora, natural scene, and other social environment and simulation analysis) for 500kV transmission lines. [Service Period: Apr. 1999 to Mar. 2008]	Japan	E			0				
Environmental impact assessment in relation to construction of wind power system	20 windmills location study, examining bird migration courses to prevent bird collisions, investigating the distribution of precious plants and examining conservation measures. [Service Period: Apr. 2003 to Mar. 2007]	Japan	3			0				
E8 National environmental census on several rivers in Kyushu	Survey of present environmental conditions (fauna and flora), for the Onga River system, Chikugo River system, Kumagawa River system, and Honmyou River system. [Service Period: Apr. 1992 to Mar. 2008]	Japan	0			0 0				
Eg Monitoring survey for nature-oriented river works	Survey fauna and flora before and after nature-oriented river works, for the Onga River system and Kumagawa River system. [Service Period: Apr. 2001 to Mar. 2005]	Japan	0			0 0				
E10 Improvement works in fish migratory river	Improvement method for existing ishways, Yabe River. [Service Period: Apr. 2006 to Mar. 2008]	Japan	0			0 0				
E11 Restoring ecological network in wetland of back-water in dam reservoirs	Biotope design for investigation of the animals and plants and the hydrological situation in order to recover the ecological network of Kasegawa Dam in Otonashi district. [Service Period: Apr. 2002 to Mar. 2003]	Japan	۵			0 0				
E12 Development of a ship equipped with a UV irradiation system to control red tide	Development of the first technology in the world using a ship with an installed UV lamp to control fresh-water red tide. Completion of an experimental culture of the red tide, local research, the effectiveness of computer simulation and pliot plant, and a monitoring investigation concerning the extinction of the red tide at the reservoir dam. [Service Period: from Apr. 1993]	Japan	0			0 0				
E13 Development of a new technique for controlling algal blooms in reservoirs using vertical curtains	Development of the first technology / preventing method in the world for autrophication of lake water membrane layer (epilimnion), by installing a film (curtain) which controls the river water inflow. This method is one of the Japanese standard techniques to control algal bloom in reservoirs. [Service Period: Apr. 1997 to Mar. 1999]	Japan	0			0 0				
E14 Construction of tidal flats as an environmental restoration and mitigation	Planning and basic design of restoration and mitigation for coastal reclamation and tideland reclamation. [Service Period: Apr. 2006 to Mar. 2007]	Japan	0			0				
E15 Development of a new technique for controlling blooms of blue green algae using water jet system.	Development of the first blue-green algal bloom control device by water jet injection in the world. This system has been the most effective system in Japan with the processing range of 20,000 m2/h. [Service Period: from Apr. 2000 to Mar. 2006]	Japan	1			0 0				
E 18 superior conduction magnet	Development of a magnetic separation system to mitigate water pollution by using a super conducting magnet. This system has the potential to be used to quickly remove suspended solids and pollutants from water and may be effective to utilize in sewage systems. [Service Period: from Apr. 2003 to Mar. 2007]	Japan	B			0				
E17 Development of a simulation model for lake eutrophication	Development of water quality simulation models to prevent murky water in lake dams, performing eutrophication cause analysis and the valuation method of the effect of these various measures. Implementation of the basic design using the model of the lake dam eutrophication measures. [Service Period: from Apr. 1999 to Mar. 2004]	Japan	B			0				
Experimental Verification of Innovative Energy Conservation Using a New System in a Dyeing Factory in China	Energy management systems to support awareness of energy-saving and the introduction of a new dyeing system in factory to promote the rationalization of energy consumption in Hangzhou. [Service Period: Jan. 2011 to Mar. 2012]	China	۵			0		0		
Energy Conservation Analysis and Consumption Measurement of Shopping Mail Complexes in China	Energy conservation analysis, consumption measurement and energy management systems to support awareness of energy-saving in shopping mail complex designs in Dalian. [Service Period: Dec. 2009 to Feb. 2010]	China	A					0		
Energy Conservation Analysis and Consumption Measurement of Hotels in China	Energy conservation analysis, consumption measurement and energy management systems to support awareness of energy-saving in Hotel Building Designs in Shanghai. [Service Period: Jul. 2009 to Nov. 2009]	China	۵			0		•		•
	Feasibility study, energy management systems to support awareness of energy-saving and the Introduction of ESCO services to promote the rationalization of energy consumption in Shanghai. [Service Period: Jul. 2006 to Feb. 2007 by JETRO finance]	China	(A)				0			
A5 Experimental Vertification of innovative Energy Conservation Systems in Buildings in China	Feasibility study, systems that promote the rationalization of energy consumption in facilities for the general public by introducing ESCO services and ice storage systems in Shanghai. [Service Period: Aug. 2005 to Feb. 2006 by JETRO finance]	China	0							
Energy Conservation Analysis and Consumption Measurement of the ESCO business Evaluation in China	Evaluation the profitability of the ESCO business, energy conservation analysis and consumption measurement and market surveys of energy prices, products and common building designs in China. [Service Period: Jul. 2004 to Mar. 2005 by NEDO finance]	China	4	•				0		
	Architectural design / Structural Engineering, basic design and planning, site survey, detailed design and construction supervision of building, "Central Public Health Service and Healthcare Facilities". [Service Period: Jul. 2006 to Mar. 2008]	Japan	0		0	•	<u> </u>			
Olta Pref., Japan	Architectural design / Structural Engineering, basic design and planning, site survey, detailed design and construction supervision of building "Local Government Official and Residence Service Institution". [Service Period: Apr. 2002 to Oct. 2005]	Japan	A		•					
Hakata-eki Minami-R Office Building, Fukuoka Pref., Japan	Architectural design / Energy conservation analysis / Structural Engineering, basic design and planning and construction supervision, "Office for Promoting the Rationalization of Energy Consumption". [Service Period: Jun. 2001 to May. 2003]	Japan	(4)	9	0			0		
A10 Gran Garden Kagoshima, Private Residence Care Service Center Building, Kagoshima Pref., Japan	Architectural design / Structural Engineering, basic design and planning, detailed design and construction supervision of building, "Private Residence for the Aged Including Lifelong Care Service". [Service Period: Nov. 2003 to Sep. 2006]	Japan	(1)		•			0		
Miravalles-III Geothermal Power Plant Project, Oxbow Power Services Inc.(IPP), ICE	Structural Engineering / Architectural design and construction supervision of powerhouse and auxiliary buildings, detailed design, auxiliary buildings. [Service Period: Feb. 1999 to Jan. 2000: 12 months] Structural Engineering / Architectural design and construction supervision of powerhouse and auxiliary buildings, detailed design, auxiliary buildings.	Costa Rica		•	•			•		
Phu My- I Gas Combined Cycle Power Plant Project (1 x 1000 MW), Electricity of Vietnam(EVN) An and Distillation / Person Plant Project (4 x 1000 MW 4 x 8 MG/D)	Structural Engineering / Architectural design of powerhouse and auxiliary buildings, detailed design including Seismic Design of powerhouse, auxiliary buildings. [Service Period: Aug. 1998 to Jan. 1999: 6 months] Structural Engineering / Ambittantural design of powerhouse and auxiliary buildings, detailed design including Seismic Design of powerhouse, auxiliary buildings.	Vietnam	A		0					
Az-zur Distillation / Power Plant Project(4 x 100MW, 4 x 6 MG/D), MEW, Kuwait Cuppedone Zhubel Cool Seed Thermal Power Plant Project Cuspedone	Structural Engineering / Architectural design and construction supervision of control building and auxiliary buildings, detailed design including Seismic Design of buildings. [Service Period: Jan. 1997 to Sept. 1997: 9 months] Structural Engineering / Architectural design and construction supervision of control building and auxiliary buildings, detailed design including Seismic Design of buildings. Structural Engineering / Architectural design and construction supervision of control building and auxiliary buildings (3 v 800 to 800 t	Kuwait	0	•	0					
A14 Guangdong Zhuhai Coal-fired Thermal Power Plant Project, Guangdong Zhuhai Power Station Co., China Retacalae Coal fixed Thermal Power Blant Project CEE Maylee	Structural Engineering / Architectural design of powerhouse and auxiliary buildings, detailed design including Seismic Design of powerhouse, auxiliary buildings (2 x 600 MW). [Service Period: Aug. 1996 to Dec. 1996: 5 months] Structural Engineering / Architectural design of powerhouse and auxiliary buildings, detailed design including Seismic Design of powerhouse, auxiliary buildings (2 x 600 MW).	China	(1)		0					
A15 Petacalco Coal-fired Thermal Power Plant Project, CFE, Mexico	Structural Engineering / Architectural design and construction supervision of powerhouse and auxiliary buildings, detailed design including Seismic Design of powerhouse, auxiliary buildings. [Service Period: Mar. 1990 to Nov. 1991: 21 months] Structural Engineering / Architectural design and construction supervision of powerhouse and surdiago buildings, detailed design including seismic design of powerhouse, auxiliary buildings.	Mexico		0	0					
A16 Auralya Combined Cycle Power Plant Project, NTPC, India Support publish power plant construction of Kyushu EPC	Structural Engineering / Architectural design and construction supervision of powerhouse and auxiliary buildings, detailed design including seismic design of powerhouse, auxiliary buildings. [Service Period: Jun. 1987 to Nov. 1989: 30 months] Period: Jun. 1987 to Nov. 1989: 30 months and construction supervision of powerhouse and auxiliary buildings, detailed design including seismic design of powerhouse, auxiliary buildings. Period: Jun. 1987 to Nov. 1989: 30 months and construction supervision of powerhouse and auxiliary buildings architectural design and construction supervision of powerhouse, auxiliary buildings.	India	(A)	0	0					
Support nuclear power plant construction of Kyushu EPC Plant I to Management for Nuclear Power Plants of Kyushu EPC	Review documents for the application to construct, modify or repair a nuclear plant, prepared by plant vender, such as construction plan, structural design, seismic design, etc. [since 2003, Sendal 1, Turbine Replacement] Evaluation of nuclear power plant sefety from the viewpoint of the aging management system during 30 years of operation.	Japan	(B)			0		0		
Plant Life Management for Nuclear Power Plants of Kyushu EPC Preventive Maintenance Optimization for Nuclear Power Plants of	Evaluation of nuclear power plant safety from the viewpoint of the aging management system during 30 years of operation. • [Evaluate Genkal1 since 2000] [2003, Report to NiSA] [2004, Checked by NiSA] • [Evaluate Genkal2 since 2008] [2010, Report to NiSA] [2010, Approved by NiSA] Reorganization of maintenance plan and system based on the new inspection system which was introduced in 2008.	Japan	(E)			0		.0		
Kyushu EPC Kyushu EPC	Two year reaction of the first agree of the first inspection system which was introduced in 2000.	Japan	(3)			•				