

Pacific Gas and Electric Company

*Cogeneration and
Small Power
Production
Semi-Annual Report*

to the
California Public Utilities
Commission

January 1999

Pacific Gas and Electric Company

Summary of Projects

January 1999

Signed Contracts Actively Delivering

Project Type	Number of Projects	Operating Size (kW)
COGENERATOR		
	104	2,751,977
SMALL POWER PRODUCER		
BIOGAS	18	41,456
BIOMASS	23	451,700
GEOTHERMAL	8	152,900
HYDRO	99	223,450
SOLAR	4	43
WASTE TO ENERGY	10	144,250
WIND	41	641,318
Total	307	4,407,094

Projects Terminated During the Half Year

All Project Types	Number of Projects	Nameplate (kW)
Total	4	6,235

Table 1

Summary of Signed Contracts

Cogeneration Projects - Operational and Currently Delivering

January 1999

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date	Enhanced Oil Recovery
1	02C048	1080 CHESTNUT CORP.	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	60	3/23/88	
2	04C140	AIRPORT CLUB	SANTA ROSA / SANTA ROSA	3	NATURAL GAS	60	8/27/92	
3	16C047	ALTAMONT COGENERATION CORP.	TRACY / SAN JOAQUIN	4	NATURAL GAS	6,500	4/13/90	
4	25C130	ARCO OIL & GAS (FEE "A")	OILDALE / KERN	2	NATURAL GAS EOR	7,450	6/25/86	Yes
5	25C186	ARCO OIL & GAS (FEE "B")	OILDALE / KERN	2	NATURAL GAS EOR	3,725	4/28/87	Yes
6	25C168	ARCO OIL & GAS (FEE "C")	OILDALE / KERN	2	NATURAL GAS EOR	7,450	2/26/87	Yes
7	25C180	ARCO OIL & GAS (OXFORD)	FELLOWS / KERN	4	NATURAL GAS EOR	5,200	9/19/84	Yes
8	02C047	ARDEN WOOD BENEVOLENT ASSOC.	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	90	9/9/87	
9	06C155	ATHLETIC CLUB	VACAVILLE / SOLANO	3	NATURAL GAS	22	7/15/91	
10	25C250	BADGER CREEK LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	4/1/91	Yes
11	25C251	BEAR MOUNTAIN LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	4/3/95	Yes
12	25C099A	BERRY PETROLEUM COGEN	TAFT / KERN	1	NATURAL GAS EOR	38,000	1/16/97	Yes
13	25C151	BERRY PETROLEUM COMPANY	TAFT / KERN	2	NATURAL GAS EOR	17,000	12/8/86	Yes
14	25C249	CAL RESOURCES (COALINGA)	COALINGA / FRESNO	1	NATURAL GAS EOR	8,500	6/3/88	Yes
15	25C258	CAL RESOURCES (N. MIDWAY SUNSET)	BAKERSFIELD / KERN	1	NATURAL GAS EOR	4,250	6/19/88	Yes
16	25C049	CAL RESOURCES (S. BELRIDGE)	BELRIDGE / KERN	4	NATURAL GAS EOR	48,000	1/10/86	Yes
17	25C246	CAL RESOURCES (SE KERN RIVER)	BAKERSFIELD / KERN	1	NATURAL GAS EOR	34,468	1/31/89	Yes
18	18C006	CALPINE AMERICAN I COGEN.	KING CITY / MONTEREY	4	NATURAL GAS	120,000	3/14/89	
19	08C002	CALPINE GILROY COGEN, L.P.	GILROY / SANTA CLARA	4	NATURAL GAS	130,000	9/18/87	
20	08C022	CALPINE MONTEREY COGEN INC.	WATSONVILLE / SANTA CRUZ	4	NATURAL GAS	28,500	4/27/90	
21	01C052	CALPINE PITTSBURG POWER PLANT	PITTSBURG / CONTRA COSTA	1	NATURAL GAS	65,500	7/1/77	
22	08C003	CARDINAL COGEN	STANFORD UNIVERSITY / SANTA CLARA	4	NATURAL GAS	49,900	2/20/88	
23	25C272	CHALK CLIFF LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	3/20/90	Yes
24	01C202	CHEVRON RICHMOND REFINERY	RICHMOND / CONTRA COSTA	1	NATURAL GAS	99,000	8/31/92	
25	25C055	CHEVRON USA (COALINGA)	COALINGA / FRESNO	1	NATURAL GAS EOR	16,500	11/7/86	Yes
26	01C080	CHEVRON USA (CONCORD)	CONCORD / CONTRA COSTA	1	NATURAL GAS	3,000	3/29/88	
27	25C003	CHEVRON USA (CYMRIC)	CYMRIC / KERN	1	NATURAL GAS EOR	21,040	10/15/82	Yes
28	25C248	CHEVRON USA (EASTRIDGE)	BAKERSFIELD / KERN	1	NATURAL GAS EOR	35,000	6/13/88	Yes
29	25C002	CHEVRON USA (TAFT/CADET)	TAFT / KERN	1	NATURAL GAS EOR	10,000	7/26/82	Yes
30	01C057	CITY OF CONCORD	CONCORD / CONTRA COSTA	1	NATURAL GAS	105	10/1/86	
31	06C061	CITY OF FAIRFIELD	FAIRFIELD / SOLANO	1	NATURAL GAS	775	8/15/84	
32	08C097	CITY OF MILPITAS	MILPITAS / SANTA CLARA	3	NATURAL GAS	60	10/6/89	
33	06C010	CITY OF VACAVILLE (COMM. CENTER)	VACAVILLE / SOLANO	4	NATURAL GAS	450	7/9/86	
34	04C130	CITY OF VALLEJO (CUNNINGHAM POOL)	VALLEJO / SOLANO	3	NATURAL GAS	80	8/15/85	
35	08C078	CITY OF WATSONVILLE	SANTA CRUZ /	1	DIGESTER GAS	550	1/23/93	

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

Table 1

Summary of Signed Contracts
Cogeneration Projects - Operational and Currently Delivering
January 1999
COGENERATOR

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date	Enhanced Oil Recovery
36	25C124	COALINGA COGENERATION COMPANY	COALINGA / FRESNO	4	NATURAL GAS EOR	41,000	10/17/91	Yes
37	08C023	CONTAINER CORP.OF AMERICA	SANTA CLARA / SANTA CLARA	2	NATURAL GAS	30,000	12/20/85	
38	08C071	COUNTY OF SANTA CRUZ (WATER ST. JAIL)	SANTA CRUZ / SANTA CRUZ	1	NATURAL GAS	180	9/1/87	
39	01C045	CROCKETT COGEN	CROCKETT / CONTRA COSTA	4	NATURAL GAS	260,000	12/20/95	
40	25C138	DAI / OILDALE , INC.	OILDALE / KERN	4	NATURAL GAS EOR	32,000	11/30/89	Yes
41	25C241	DOUBLE "C" LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	3/14/89	Yes
42	25C016	DYNAMIS COGEN	SANGER / FRESNO	2	NATURAL GAS	38,000	12/11/90	
43	25C092	FRESNO COGENERATION CORPORATION	FRESNO / FRESNO	2	NATURAL GAS	25,000	12/27/89	
44	25C063	FRITO LAY COGEN	BAKERSFIELD / KERN	4	NATURAL GAS	6,000	4/2/86	
45	08C010	GATX/CALPINE COGEN-AGNEWS INC.	SAN JOSE / SANTA CLARA	4	NATURAL GAS	36,100	10/19/90	
46	01C104	GAYLORD	ANTIOCH / CONTRA COSTA	2	NATURAL GAS	49,670	11/18/82	
47	12C020	GREENLEAF UNIT #1	YUBA CITY / SUTTER	4	NATURAL GAS	49,500	1/11/89	
48	12C021	GREENLEAF UNIT #2	YUBA CITY / SUTTER	4	NATURAL GAS	49,500	10/12/89	
49	01C201	HAYWARD AREA REC & PARK DIST.	HAYWARD / ALAMEDA	3	NATURAL GAS	60	2/2/88	
50	25C242	HIGH SIERRA LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	2/24/89	Yes
51	16C004	JACKSON VALLEY ENERGY PTNRS (IONE)	IONE / AMADOR	4	LIGNITE COAL	17,990	1/5/87	
52	25C188	KERN FRONT LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	1/7/89	Yes
53	25C274	LIVE OAK LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	3/16/91	Yes
54	01C044	MARTINEZ COGEN LIMITED PARTNERSHIP	MARTINEZ / CONTRA COSTA	4	NATURAL GAS	99,900	2/23/87	
55	25C275	MCKITTRICK LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	10/16/91	Yes
56	25C123	MIDSET COGEN. CO.	TAFT / KERN	4	NATURAL GAS EOR	46,000	3/16/89	Yes
57	25C321	MIDWAY-SUNSET COGEN. CO.	FELLOWS / KERN	1	NATURAL GAS EOR	30,000	12/18/89	Yes
58	18C048	MONTEREY POWER COMPANY	SALINAS / MONTEREY	2	NATURAL GAS	6,000	12/29/90	
59	04C101	MT. TAM RACQUET CLUB	NEAR LARKSPUR / MARIN	3	NATURAL GAS	60	9/9/85	
60	25C018	MT.POSO COGENERATION CO.	BAKERSFIELD / KERN	4	COAL	49,500	4/1/89	Yes
61	04C054	NAPA STATE HOSPITAL	NAPA / NAPA	1	NATURAL GAS	1,330	7/18/84	
62	02C058	NIHONMACHI TERRACE	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	75	6/1/92	
63	25C293	NUEVO ENERGY COMPANY (DOME)	FELLOWS / KERN	1	NATURAL GAS EOR	6,064	9/2/88	Yes
64	25C308	NUEVO ENERGY COMPANY (WELPORT)	MCKITTRICK / KERN	1	NATURAL GAS EOR	4,000	1/27/90	Yes
65	25C337	OCCIDENTAL OF ELK HILLS, INC.	TUPMAN / KERN	1	NATURAL GAS	22,500	11/2/94	
66	25C170	OILDALE ENERGY LLC	OILDALE / KERN	4	NATURAL GAS	33,800	12/29/84	
67	01C245	ORINDA SENIOR VILLAGE	ORINDA / CONTRA COSTA	3	NATURAL GAS	60	2/6/91	
68	12C019	OROVILLE COGEN	OROVILLE / BUTTE	2	NATURAL GAS	8,500	12/18/89	
69	08C017	OWL COMPANIES	SANTA RUZ / SANTA CRUZ	1	NATURAL GAS	600	12/30/85	
70	01C084	PE - BERKELEY, INC.	BERKELEY / ALAMEDA	4	NATURAL GAS	26,350	5/19/87	

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January 1999
COGENERATOR

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date	Enhanced Oil Recovery
71	25C164	PE - KES KINGSBURG,LLC	KINGSBURG / FRESNO	2	NATURAL GAS	34,500	12/5/90	
72	16C007	POSDEF (COGEN NATIONAL)	PORT OF STOCKTON / SAN JOAQUIN	4	COAL	44,000	12/7/87	
73	08C101	REACH FITNESS INC.	LOS ALTOS / SANTA CLARA	3	NATURAL GAS	26	6/10/91	
74	13C160	RED BLUFF UNION HIGH SCHOOL	RED BLUFF / TEHAMA	3	NATURAL GAS	60	7/15/91	
75	01C108	RHONE-POULENC (STAUFFER CHEMICAL)	MARTINEZ / CONTRA COSTA	1	NATURAL GAS	4,000	6/1/77	
76	25C076	RIO BRAVO POSO	BAKERSFIELD / KERN	4	COAL	37,000	9/27/89	Yes
77	16C034	RIPON COGENERATION, INC.	RIPON / SAN JOAQUIN	4	NATURAL GAS	49,500	4/19/88	
78	25C178	SAINT AGNES MED. CTR	FRESNO / FRESNO	1	NATURAL GAS	2,325	11/21/85	
79	18C053	SALINAS RIVER COGEN CO.	SAN ARDO / MONTEREY	4	NATURAL GAS EOR	49,600	10/11/91	Yes
80	25C057	SAN JOAQUIN COGEN	LATHROP / SAN JOAQUIN	2	NATURAL GAS	55,000	1/9/90	
81	25C045	SAN JOAQUIN POWER COMPANY	ATWATER / MERCED	2	NATURAL GAS	10,750	4/19/91	
82	08C030	SAN JOSE COGEN	SAN JOSE / SANTA CLARA	1	NATURAL GAS	6,000	12/18/84	
83	08C026	SAN JOSE CONVENTION CENTER	SAN JOSE / SANTA CLARA	1	NATURAL GAS	1,500	4/2/90	
84	18C026	SANTA MARIA COGEN	SANTA MARIA / SANTA BARBARA	4	NATURAL GAS	8,044	6/21/89	
85	18C052	SARGENT CANYON COGEN. COMPANY	SAN ARDO / MONTEREY	4	NATURAL GAS EOR	49,600	10/7/91	Yes
86	01C199	SATELLITE SENIOR HOMES	OAKLAND / ALAMEDA	3	NATURAL GAS	60	7/17/86	
87	06C017	SOLANO CO. GOVERNMENT CENTER	VACAVILLE / SOLANO	4	NATURAL GAS	1,450	6/15/89	
88	02C041	SRI INTERNATIONAL	MENLO PARK / SAN MATEO	1	NATURAL GAS	6,000	3/10/87	
89	01C089	STANFORD ENERGY GROUP	OAKLAND / ALAMEDA	1	NATURAL GAS	115	1/8/86	
90	16C036	STOCKTON COGEN CO.	STOCKTON / SAN JOAQUIN	4	COAL	49,900	2/27/88	
91	04C143	TENNIS EVERYONE	NOVATO / MARIN	3	NATURAL GAS	56	7/7/93	
92	25C004	TEXACO INC. (LOST HILLS)	LOST HILLS / KERN	1	NATURAL GAS EOR	10,970	10/8/95	Yes
93	25C193	TEXACO INC. (MCKITTRICK)	MCKITTRICK / KERN	1	NATURAL GAS EOR	6,000	10/1/94	Yes
94	01C189	TOSCO (CARBON PLANT)	RODEO / CONTRA COSTA	2	NATURAL GAS	27,380	12/1/83	
95	01C061	TOSCO (RODEO PLANT)	RODEO / CONTRA COSTA	1	NATURAL GAS	49,900	5/21/87	
96	02C001	UNITED COGEN	SAN BRUNO / SAN MATEO	4	NATURAL GAS	30,000	9/12/86	
97	02C003	UNIVERSITY OF SAN FRANCISCO	SAN FRANCISCO / SAN FRANCISCO	1	NATURAL GAS	1,500	6/1/87	
98	02C049	WESTMOOR HIGH SCHOOL	DALY CITY / SAN MATEO	3	NATURAL GAS	60	4/9/87	
99	13P162	WHEELABRATOR HUDSON	ANDERSON / SHASTA	4	WOODWASTE	6,875	7/12/93	
100	13C082	WHEELABRATOR LASSEN INC.	ANDERSON / SHASTA	2	NATURAL GAS	42,000	4/28/83	
101	06C153	YOUNG RADIO INC.	FAIRFIELD / SOLANO	3	NATURAL GAS	20	1/16/91	
102	04C008	YOUNTVILLE COGEN ASSOCIATES	YOUNTVILLE / NAPA	4	NATURAL GAS	3,000	8/6/86	
103	12C026	YUBA CITY COGEN	YUBA CITY / SUTTER	4	NATURAL GAS	49,000	12/27/90	

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

Table 1

Summary of Signed Contracts
Cogeneration Projects - Operational and Currently Delivering
January 1999
COGENERATOR

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date	Enhanced Oil Recovery
104	12C085	YUBA CITY RACQUET CLUB	YUBA CITY / SUTTER	3	NATURAL GAS	60	7/18/91	
Total:						2,751,977		

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

Table 2

Summary of Signed Contracts
January 1999
Small Power Projects - Operational and Currently Delivering

BIOGAS

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
1	01P219	BIO-ENERGY PART.	LIVERMORE / ALAMEDA	1	LANDFILL GAS	6,000	5/4/89
2	04P051	COUNTY OF SONOMA	PETALUMA / SONOMA	1	LANDFILL GAS	6,000	4/30/93
3	01P171	EBMUD (OAKLAND)	OAKLAND / ALAMEDA	1	DIGESTER GAS	4,000	10/20/91
4	04P010	GAS RECOVERY SYS. (AMERICAN CYN)	AMERICAN CANYON / NAPA	4	LANDFILL GAS	1,500	12/27/85
5	08P006	GAS RECOVERY SYS. (GUADALUPE)	LOS GATOS / SANTA CLARA	4	LANDFILL GAS	2,600	1/12/84
6	02P014	GAS RECOVERY SYS. (MENLO PARK)	MENLO PARK / SAN MATEO	2	LANDFILL GAS	2,000	1/11/83
7	08P004	GAS RECOVERY SYS. (NEWBY ISLAND 2)	SAN JOSE / SANTA CLARA	4	LANDFILL GAS	4,200	8/3/84
8	08P021	LANDFILL GENERATING PTNRS. I	SANTA CRUZ / SANTA CRUZ	4	LANDFILL GAS	933	11/22/88
9	10P058	LANGERWERF DAIRY	DURHAM / BUTTE	3	DIGESTER GAS	85	11/3/82
10	18P059	MONTEREY REGIONAL WASTE MGMT DIST.	MARINA / MONTEREY	2	LANDFILL GAS	2,900	12/30/83
11	18C001	MONTEREY REGIONAL WATER	MARINA / MONTEREY	1	DIGESTER GAS	1,740	8/26/88
12	04P116	NAPA SANITATION DISTRICT	NAPA / NAPA	3	LANDFILL GAS	98	1/10/86
13	01P070	NOVE INVESTMENTS	RICHMOND / CONTRA COSTA	4	LANDFILL GAS	3,000	12/31/85
14	18P014	OGDEN PACIFIC POWER (SALINAS)	SALINAS / MONTEREY	4	LANDFILL GAS	1,500	11/10/86
15	08P008	OGDEN PACIFIC POWER (SANTA CLARA)	SANTA CLARA / SANTA CLARA	4	LANDFILL GAS	2,000	10/22/86
16	16P001	OGDEN PACIFIC POWER (STOCKTON)	STOCKTON / SAN JOAQUIN	4	LANDFILL GAS	800	11/27/85
17	08P024	PALO ALTO LANDFILL	PALO ALTO / SANTA CLARA	4	LANDFILL GAS	2,000	6/13/90
18	25C326	ROY SHARP JR.	CARUTHERS / FRESNO	3	DIGESTER GAS	100	11/21/91
Total:						41,456	

BIOMASS

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
19	13C010	BIG VALLEY LUMBER COMPANY	BIEBER / LASSEN	2	WOODWASTE	5,000	8/18/83
20	13C038	BURNEY FOREST PRODUCTS	BURNEY / SHASTA	4	WOODWASTE	31,000	10/17/89
21	10C003	COLLINS PINE	CHESTER / PLUMAS	2	WOODWASTE	12,000	4/4/84
22	16C088	DIAMOND WALNUT GROWERS INC.	STOCKTON / SAN JOAQUIN	2	WALNUT SHELLS	4,500	11/25/80
23	19P005	FAIRHAVEN POWER CO.	FAIRHAVEN / HUMBOLDT	4	WOODWASTE	17,250	9/15/86
24	04P056	GEORGIA PACIFIC CORP.	FORT BRAGG / MENDOCINO	1	WOODWASTE	15,000	6/1/80
25	10P005	HL POWER	WENDEL / LASSEN	4	WOODWASTE	30,000	7/26/89

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Table 2

Summary of Signed Contracts

January 1999

Small Power Projects - Operational and Currently Delivering

BIOMASS

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
26	25C013	MENDOTA BIOMASS POWER	MENDOTA / FRESNO	4	WOODWASTE	28,000	6/29/89
27	16P002	OGDEN POWER PACIFIC, INC. (CHINESE STATION)	CHINESE STATION / TUOLUMNE	4	WOODWASTE	22,000	6/4/86
28	12P001	OGDEN POWER PACIFIC, INC. (OROVILLE)	OROVILLE / BUTTE	4	WOODWASTE	18,000	9/26/85
29	13P118	OGDEN POWER PACIFIC, INC. (BURNEY)	BURNEY / SHASTA	4	WOODWASTE	9,750	8/15/84
30	10P001	OGDEN POWER PACIFIC, INC.(MT. LASSEN)	WESTWOOD / LASSEN	4	WOODWASTE	11,400	10/11/84
31	19C010	PACIFIC LUMBER CO.	SCOTIA / HUMBOLDT	1	WOODWASTE	20,000	3/22/86
32	25P026	RIO BRAVO FRESNO	FRESNO / FRESNO	4	WOODWASTE	26,500	7/20/88
33	13C049	SIERRA PACIFIC IND. (BURNEY)	BURNEY / SHASTA	4	WOODWASTE	20,000	11/4/86
34	12C008	SIERRA PACIFIC IND. (LINCOLN)	LINCOLN / PLACER	4	WOODWASTE	7,500	6/3/86
35	10C018	SIERRA PACIFIC IND. (QUINCY)	QUINCY / PLUMAS	4	WOODWASTE	20,000	1/14/83
36	10C009	SIERRA PACIFIC IND.(SUSANVILLE)	SUSANVILLE / LASSEN	4	WOODWASTE	15,000	10/5/81
37	16P054	THERMAL ENERGY DEV. CORP.	TRACY / SAN JOAQUIN	4	WOODWASTE	21,000	4/26/90
38	19P001	ULTRAPOWER (BLUE LAKE)	BLUE LAKE / HUMBOLDT	4	WOODWASTE	11,400	7/3/85
39	12P018	WADHAM ENERGY LTD. PART.	WILLIAMS / COLUSA	4	RICE HULLS	26,500	3/24/89
40	13P045	WHEELABRATOR SHASTA	COTTONWOOD / SHASTA	4	WOODWASTE	54,900	10/30/87
41	06P022	WOODLAND BIOMASS	WOODLAND / YOLO	4	AGRICULTURAL WASTE	25,000	8/31/89
Total:						451,700	

GEOHERMAL

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
42	10G012	AMEDEE GEOTHERMAL VENTURE 1	WENDEL / LASSEN	4	GEOHERMAL	2,200	9/11/88
43	04G057	CALISTOGA GEOTHERMAL PARTNERS, L.P.	THE GEYSERS / LAKE	2	GEOHERMAL	80,000	3/14/84
44	04G012	CALPINE GEYSERS CO. L. P. (KW#1)	ANDERSON SPRINGS / LAKE	4	GEOHERMAL	10,000	9/6/88
45	04G016	CALPINE GEYSERS CO. L. P. (KW#2)	ANDERSON SPRINGS / LAKE	4	GEOHERMAL	10,000	9/2/88
46	04G025	CALPINE GEYSERS CO. L. P. (WFF)	THE GEYSERS / LAKE	4	GEOHERMAL	30,000	12/11/88
47	04G018	GEOHERMAL ENERGY PARTNERS 1	THE GEYSERS / SONOMA	4	GEOHERMAL	10,000	6/16/89
48	04G019	GEOHERMAL ENERGY PARTNERS 2	THE GEYSERS / SONOMA	4	GEOHERMAL	10,000	5/28/89
49	10G011	WINEAGLE DEVELOPERS 1	WENDEL / LASSEN	4	GEOHERMAL	700	6/11/85
Total:						152,900	

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

Table 2

Summary of Signed Contracts

January 1999

Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
50	15H052	ADRIAN B. HAEMMIG	GRASS VALLEY / NEVADA	3	HYDRO	15	7/1/82
51	13H008	ARBUCKLE MOUNTAIN HYDRO	PLATINA / SHASTA	4	HYDRO	360	12/1/86
52	13H119	BAILEY CREEK RANCH	MANTON / SHASTA	3	HYDRO	800	5/26/82
53	15H072	BERTHA WRIGHT BERTILLION	WRIGHT RANCH / SIERRA	3	HYDRO	40	11/22/85
54	04H011	BES HYDRO	POTTER VALLEY / MENDOCINO	4	HYDRO	400	9/30/87
55	13H005	BIG CREEK WATER WORKS LTD.	HYAMPOM / TRINITY	4	HYDRO	4,800	1/7/87
56	12H054	BROWNS VALLEY IRRIGATION DIST.	BROWNS VALLEY / YUBA	1	HYDRO	995	6/29/84
57	15H053	BUCKEYE 82 INVESTORS	GEORGETOWN / EL DORADO	2	HYDRO	375	5/24/83
58	19H004	BURGESS, NORMAN ROSS	ZENIA / TRINITY	4	HYDRO	1,250	12/28/84
59	16H008	CALAVERAS CTY WD	SAN ANDREAS / CALAVERAS	1	HYDRO	3,300	4/15/86
60	16H092	CALAVERAS YUBA HYDRO #1	MOKELUMNE HILL / CALAVERAS	3	HYDRO	90	4/15/86
61	16H177	CALAVERAS YUBA HYDRO #2	CHILI GULCH / CALAVERAS	3	HYDRO	90	4/15/86
62	16H178	CALAVERAS YUBA HYDRO #3	CHILI GULCH / CALAVERAS	3	HYDRO	90	4/15/86
63	19H048	CEDAR FLAT HYDRO	BURNT RANCH / TRINITY	4	HYDRO	300	1/9/84
64	04H060	CITY OF VALLEJO	VALLEJO / SOLANO	1	HYDRO	300	1/15/85
65	06H159	DAVID O. HARDE	SOMERSET / EL DORADO	3	HYDRO	100	11/18/92
66	15H012	EAGLE HYDRO	GEORGETOWN / EL DORADO	1	HYDRO	550	12/23/85
67	13H001	EL DORADO (MONTGOMERY CK)	MONTGOMERY CREEK / SHASTA	4	HYDRO	2,600	2/28/87
68	10H013	ENERGY GROWTH PARTNERS I	DE SABLA CITY / BUTTE	4	HYDRO	13,300	3/16/92
69	25H193	FAIRFIELD POWER PLANT	MERCED / MERCED	1	HYDRO	900	8/2/83
70	10H010	FIVE BEARS HYDROELECTRIC	TAYLORSVILLE / PLUMAS	4	HYDRO	990	4/27/89
71	25H037	FRIANT DAM	FRIANT / MADERA	4	HYDRO	25,000	4/16/85
72	12H056	GLENN COLUSA IRR. DIST. (FUNKS CK)	MAXWELL / COLUSA	3	HYDRO	93	8/2/85
73	12H053	GLENN COLUSA IRR. DIST. (STOVALL 2)	WILLIAMS / COLUSA	4	HYDRO	115	5/20/83
74	04H052	HAMMEKEN HYDRO	POTTER VALLEY / MENDOCINO	4	HYDRO	330	3/27/90
75	13H123	HAT CREEK HEREFORD RANCH	HAT CREEK / SHASTA	3	HYDRO	100	12/9/82
76	15H005	HAYPRESS HYDROELECTRIC, INC. (LWR)	SIERRA CITY / SIERRA	4	HYDRO	6,100	4/11/89
77	15H006	HAYPRESS HYDROELECTRIC, INC. (MDL)	SIERRA CITY / SIERRA	4	HYDRO	8,700	4/15/89
78	15H002	HENWOOD ASSOCIATES	SIERRA CITY / SIERRA	4	HYDRO	594	11/28/84
79	13H012	HIGHLAND HYDRO CONSTR. INC. - III	OAK RUN / SHASTA	4	HYDRO	200	2/1/85

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

Table 2

Summary of Signed Contracts

January 1999

Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
80	19H051	HUMBOLDT BAY MWD	RUTH / TRINITY	1	HYDRO	1,300	4/10/83
81	04H061	INDIAN VALLEY HYDRO	CLEAR LAKE / LAKE	1	HYDRO	3,335	9/15/83
82	16H095	JACKSON VALLEY IRRIGATION DIST	IONE / AMADOR	1	HYDRO	455	9/1/82
83	10H059	JAMES B. PETER	TAYLORSVILLE / PLUMAS	3	HYDRO	15	1/17/84
84	10H090	JAMES CRANE HYDRO	CHICO / BUTTE	3	HYDRO	3	6/20/91
85	04H134	JOHN NEERHOUT JR.	CALISTOGA / NAPA	3	HYDRO	85	5/1/87
86	10H007	KATHLEEN AUSTIN DBA GANSNER PWR. & WTR.	QUINCY / PLUMAS	1	HYDRO	275	4/6/85
87	25H073	KERN HYDRO (OLCESE)	BAKERSFIELD / KERN	4	HYDRO	16,000	5/18/89
88	25H150	KINGS RIVER HYDRO CO.	FRESNO / FRESNO	4	HYDRO	1,000	8/19/90
89	10H002	LASSEN STATION HYDRO	PULGA / BUTTE	4	HYDRO	990	5/22/86
90	13H120	LOFTON RANCH	BIG BEND / SHASTA	1	HYDRO	300	11/4/83
91	25H040	MADERA CANAL (1174 + 84)	MADERA / MADERA	4	HYDRO	563	4/11/86
92	25H042	MADERA CANAL (1923)	MADERA / MADERA	4	HYDRO	925	4/1/86
93	25H041	MADERA CANAL STATION 1302	MADERA / MADERA	4	HYDRO	424	4/16/86
94	25H036	MADERA CHOWCHILLA	MADERA / MADERA	4	HYDRO	1,800	2/2/85
95	13H047	MALACHA HYDRO L.P.	PITVILLE / LASSEN	4	HYDRO	26,000	12/7/88
96	04H062	MCFADDEN FARM	POTTER VALLEY / MENDOCINO	1	HYDRO	350	7/1/83
97	13H124	MCMILLAN HYDRO	MONTGOMERY CREEK / SHASTA	4	HYDRO	975	3/22/84
98	13H125	MEGA HYDRO #1 (CLOVER CREEK)	OAK RUN / SHASTA	4	HYDRO	1,000	2/21/86
99	13H122	MEGA HYDRO (GOOSE VALLEY RANCH)	BURNEY / SHASTA	4	HYDRO	280	4/8/83
100	13H017	MEGA RENEWABLES (BIDWELL DITCH)	BURNEY / SHASTA	4	HYDRO	2,000	2/22/87
101	13H015	MEGA RENEWABLES (HATCHET CRK)	MONTGOMERY CR. / SHASTA	4	HYDRO	7,000	1/5/87
102	13H014	MEGA RENEWABLES (ROARING CRK)	MONTGOMERY CREEK / SHASTA	4	HYDRO	2,000	12/5/86
103	13H036	MEGA RENEWABLES (SILVER SPRINGS)	BIG BEND / SHASTA	4	HYDRO	600	8/15/87
104	25H185	MERCED ID (PARKER)	MERCED / MERCED	1	HYDRO	2,690	9/23/81
105	19H006	MILL & SULPHUR CREEK	DINSMORE / HUMBOLDT	4	HYDRO	995	2/23/88
106	18H034	MONTEREY CTY WATER RES AGENCY	SAN LUIS OBISPO / SAN LUIS OBISPO	4	HYDRO	3,750	7/13/87
107	13H042	NELSON CREEK POWER INC.	BIG BEND / SHASTA	4	HYDRO	1,100	12/19/88
108	15H015	NEVADA POWER AUTHORITY	NEVADA CITY / NEVADA	4	HYDRO	3,600	8/18/86
109	15H013	NID/COMBIE NORTH	MEADOW VISTA / PLACER	4	HYDRO	330	3/24/88

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Table 2

Summary of Signed Contracts
January 1999
Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
110	15H054	NID/COMBIE SOUTH	PLACER CITY / PLACER	4	HYDRO	1,500	4/26/84
111	15H001	NID/SCOTTS FLAT	NEVADA CITY / NEVADA	4	HYDRO	850	12/14/84
112	13H024	OLSEN POWER PARTNERS	WHITMORE / SHASTA	4	HYDRO	5,000	1/3/90
113	25H149	ORANGE COVE IRRIGATION DIST.	FRESNO / FRESNO	4	HYDRO	450	8/23/90
114	13H128	PAN PACIFIC (WEBER FLAT)	COVINGTON MILL / TRINITY	4	HYDRO	975	1/11/84
115	10H060	PERRY LOGGING	CHICO / BUTTE	1	HYDRO	300	1/26/83
116	15H059	PLACER COUNTY WATER AGENCY	FOREST HILL / PLACER	1	HYDRO	500	4/30/83
117	13H127	ROBERT W. LEE	MONTON / SHASTA	3	HYDRO	30	7/9/82
118	06H011	ROCK CREEK L.P.	PLACERVILLE / EL DORADO	4	HYDRO	3,000	4/24/86
119	16H033	ROCK CREEK WATER DISTRICT	SALT SPRINGS VA / CALAVERAS	1	HYDRO	700	2/25/86
120	13H132	RUGRAW INC.(DIGGER CREEK)	MONTON / TEHAMA	1	HYDRO	600	5/18/83
121	08H013	SANTA CLARA VALLEY WATER DIST.	MORGAN HILL / SANTA CLARA	4	HYDRO	800	12/1/88
122	16H030	SCHAADS HYDRO	WILSEYVILLE / CALAVERAS	1	HYDRO	230	2/18/86
123	15H055	SIERRA ENERGY COMPANY	FORESTHILL / SONOMA	1	HYDRO	200	1/11/88
124	13H016	SNOW MOUNTAIN HYDRO LLC (BURNEY CREEK)	BURNEY / SHASTA	4	HYDRO	3,000	3/28/90
125	13H013	SNOW MOUNTAIN HYDRO LLC (COVE)	MONTGOMERY CR. / SHASTA	4	HYDRO	5,000	2/20/90
126	13H057	SNOW MOUNTAIN HYDRO LLC (LOST CREEK 1)	LOST CREEK / SHASTA	4	HYDRO	1,400	10/9/89
127	13H041	SNOW MOUNTAIN HYDRO LLC (LOST CREEK 2)	HAT CREEK / SHASTA	4	HYDRO	500	6/15/89
128	13H035	SNOW MOUNTAIN HYDRO LLC (PONDEROSA BAILEY CREEK)	MONTON / SHASTA	4	HYDRO	1,100	1/25/90
129	04H009	SONOMA COUNTY WATER AGENCY	GEYSERVILLE / SONOMA	4	HYDRO	2,600	12/22/88
130	16H094	SOUTH SAN JOAQUIN ID (FRANKENHEIMER)	OAKDALE / STANISLAUS	1	HYDRO	5,035	2/12/83
131	16H097	SOUTH SAN JOAQUIN ID (WOODWARD)	OAKDALE / STANISLAUS	1	HYDRO	2,850	4/16/82
132	12H004	SOUTH SUTTER WATER	SHERIDAN / PLACER	4	HYDRO	395	7/17/85
133	13H130	STEVE & BONNIE TETRICK	MILLVILLE / SHASTA	3	HYDRO	100	10/14/83
134	19H049	STEVEN SPELLENBERG HYDRO	BURNT RANCH / TRINITY	3	HYDRO	28	12/5/83
135	12H007	STS HYDROPOWER LTD. (KANAKA)	FEATHER FALLS / BUTTE	4	HYDRO	1,100	2/13/89
136	13H039	STS HYDROPOWER LTD. (KEKAWAKA)	ALDERPOINT / TRINITY	4	HYDRO	4,950	12/27/89
137	13H006	SUTTER'S MILL	SHINGLETOWN / SHASTA	1	HYDRO	150	6/25/85
138	15H069	SWISS AMERICA	AUBURN / PLACER	3	HYDRO	100	12/23/85
139	13H004	T & G HYDRO	WHITMORE / SHASTA	4	HYDRO	340	10/15/84

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Table 2

Summary of Signed Contracts

January 1999

Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
140	13H040	TKO POWER (SOUTH BEAR CREEK)	SHINGLETOWN / SHASTA	4	HYDRO	3,000	1/15/86
141	19H055	TOM BENNINGHOVEN	GARBERVILLE / HUMBOLDT	3	HYDRO	25	11/22/82
142	16H003	TRI-DAM AUTHORITY	SONORA / TUOLUMNE	4	HYDRO	16,200	5/19/86
143	15H058	TUNNEL HILL	GEORGETOWN / EL DORADO	2	HYDRO	600	12/30/83
144	25H039	UNITED HYDRO, INC. #2 (SAN LUIS BYPASS)	LOS BANOS / MERCED	4	HYDRO	675	2/1/86
145	19H002	WEA BAKER CREEK	BRIDGEVILLE / HUMBOLDT	4	HYDRO	1,500	12/10/87
146	04H002	YOLO COUNTY FLOOD & WCD	CLEAR LAKE / LAKE	1	HYDRO	2,500	9/7/85
147	12H010	YUBA COUNTY WATER	CHALLENGE / YUBA	4	HYDRO	2,000	1/29/90
148	12H006	YUBA COUNTY WATER AGENCY	MARYSVILLE / YUBA	4	HYDRO	150	9/30/86
Total:						223,450	

SOLAR

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
149	06S040	CITY OF DIXON	DIXON / SOLANO	3	PHOTOVOLTAIC	20	1/4/85
150	01S252	JAMES C. ROSS	OAKLAND / ALAMEDA	3	PHOTOVOLTAIC	3	9/1/93
151	04S152	REAL GOODS TRADING CORP.	HOPLAND / MENDOCINO	3	PHOTOVOLTAIC	13	6/10/96
152	04S142	ROBIN WILLIAMS SOLAR POWER GEN	NAPA / NAPA	3	PHOTOVOLTAIC	7	4/16/93
Total:						43	

WASTE TO ENERGY

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
153	25C062	DOLE ENTERPRISES	KERN / KERN	3	WASTE GAS	50	2/5/91
154	01P049	GWF POWER SYSTEMS INC. #1	PITTSBURG / CONTRA COSTA	4	PETROLEUM COKE	17,740	12/7/90
155	01P086	GWF POWER SYSTEMS INC. #2	PITTSBURG / CONTRA COSTA	4	PETROLEUM COKE	17,740	12/22/89
156	01P091	GWF POWER SYSTEMS INC. #3	ANTIOCH / CONTRA COSTA	4	PETROLEUM COKE	17,740	8/27/90
157	01P051	GWF POWER SYSTEMS INC. #4	ANTIOCH / CONTRA COSTA	4	PETROLEUM COKE	17,740	10/10/89
158	01P087	GWF POWER SYSTEMS INC. #5	PITTSBURG / CONTRA COSTA	4	PETROLEUM COKE	17,740	3/17/90

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Table 2

Summary of Signed Contracts

January 1999

Small Power Projects - Operational and Currently Delivering

WASTE TO ENERGY

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
159	25C136	HANFORD L.P.	HANFORD / KINGS	4	PETROLEUM COKE	23,000	9/26/90
160	18P123	LOS ALAMOS ENERGY, L.L.C.	BLAIR RANCH LEASE / SAN LUIS OBISPO	1	WASTE GAS	500	12/28/88
161	16P053	MODESTO ENERGY	WESTLY / STANISLAUS	4	TIRES	14,000	9/11/87
162	16P052	STANISLAUS WASTE ENERGY CO.	CROWS LANDING / STANISLAUS	4	GARBAGE	18,000	9/6/88
Total:						144,250	

WIND

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
163	16W009	ALTAMONT MIDWAY LTD.	ALTAMONT PASS / SAN JOAQUIN	4	WIND	12,500	4/16/85
164	04W063	BERTHA NOLL	WOODACRE / MARIN	3	WIND	10	12/4/81
165	06W076	DAVID W. MCAVENIA	VACAVILLE / SOLANO	3	WIND	10	10/14/82
166	01W119	DONALD R. CHENOWETH	LIVERMORE / ALAMEDA	3	WIND	10	8/2/82
167	06W079	EDWARD ANDERSON JR.	BIRDS LANDING / SOLANO	3	WIND	10	7/18/82
168	16W014	FLOWIND 3-4	LIVERMORE / ALAMEDA	4	WIND	18,960	4/11/85
169	16W015	FLOWIND 4-4	ALTAMONT PASS / ALAMEDA	4	WIND	18,960	1/1/87
170	16W016	FLOWIND 5-4	ALTAMONT PASS / ALAMEDA	4	WIND	18,990	4/11/85
171	16W017	FLOWIND 6-4	ALTAMONT PASS / ALAMEDA	4	WIND	18,990	1/1/87
172	01W009	FLOWIND PARTNERS 1	ALTAMONT PASS / SAN JOAQUIN	4	WIND	8,480	1/9/84
173	16W010	FLOWIND PARTNERS 2	ALTAMONT PASS / ALAMEDA	4	WIND	2,700	4/11/85
174	06W148	GREEN RIDGE POWER LLC (10 MW)	MONTEZUMA HILLS / SOLANO	4	WIND	10,000	1/1/90
175	01W146A	GREEN RIDGE POWER LLC (100 MW - A)	TRACY / SAN JOAQUIN	4	WIND	43,100	1/1/88
176	01W146B	GREEN RIDGE POWER LLC (100 MW - B)	TRACY / SAN JOAQUIN	4	WIND	30,000	4/1/88
177	01W146C	GREEN RIDGE POWER LLC (100 MW - C)	TRACY / SAN JOAQUIN	4	WIND	11,900	1/2/90
178	01W146D	GREEN RIDGE POWER LLC (100 MW - D)	TRACY / SAN JOAQUIN	4	WIND	15,000	1/1/91
179	01W004	GREEN RIDGE POWER LLC (110 MW)	LIVERMORE / ALAMEDA	4	WIND	110,000	1/1/86
180	16W011	GREEN RIDGE POWER LLC (23.8 MW)	TRACY / SAN JOAQUIN	4	WIND	23,800	1/5/87
181	01W144	GREEN RIDGE POWER LLC (30 MW)	TRACY / SAN JOAQUIN	4	WIND	30,000	4/1/88
182	01W018	GREEN RIDGE POWER LLC (5.9 MW)	TRACY / SAN JOAQUIN	4	WIND	5,900	3/2/88
183	06W146A	GREEN RIDGE POWER LLC (70 MW - A)	TRACY / SAN JOAQUIN	4	WIND	20,000	4/1/88

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Table 2

Summary of Signed Contracts

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Small Power Projects - Operational and Currently Delivering

WIND

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
184	06W146B	GREEN RIDGE POWER LLC (70 MW - B)	BENECIA / SOLANO	4	WIND	18,500	1/1/90
185	06W146C	GREEN RIDGE POWER LLC (70 MW - C)	BENECIA / SOLANO	4	WIND	30,000	1/1/91
186	06W146D	GREEN RIDGE POWER LLC (70 MW - D)	TRACY / SAN JOAQUIN	4	WIND	1,500	1/1/91
187	01W035	GREEN RIDGE POWER LLC (70 MW)	LIVERMORE / ALAMEDA	4	WIND	70,000	4/1/87
188	25W105	INTERNATIONAL TURBINE RESEARCH	PACHECO PASS / MERCED	4	WIND	16,000	6/14/88
189	01W129	L.P. REINHARD	HAYWARD / ALAMEDA	3	WIND	10	6/18/81
190	06W089	MARION ACQUISTAPACE	SUISUN CITY / SOLANO	3	WIND	10	10/16/82
191	01W132	MELBURN SWAFFORD	OAKLEY / CONTRA COSTA	3	WIND	4	10/23/81
192	04W072	MICHAEL OR KAREN RIPPEY	VALLEJO / NAPA	3	WIND	4	8/8/84
193	01W095	NORTHWIND ENERGY	ALTAMONT / CONTRA COSTA	4	WIND	15,500	1/4/86
194	16W028	PATTERSON PASS WIND FARM LLC	ALTAMONT PASS / SAN JOAQUIN	4	WIND	22,000	4/2/85
195	01W134	ROBERT AND JOYCE VIEUX	LIVERMORE / ALAMEDA	3	WIND	10	7/8/81
196	01W011	SEA WEST ENERGY - ALTECH	ALTAMONT PASS / SAN JOAQUIN	4	WIND	5,760	1/22/83
197	01W007	SEA WEST ENERGY - CWES	ALTAMONT PASS / SAN JOAQUIN	4	WIND	1,500	1/22/83
198	01W006	SEA WEST ENERGY - SEAWEST	ALTAMONT PASS / SAN JOAQUIN	4	WIND	60	1/22/83
199	01W015	SEA WEST ENERGY - TAXVEST	ALTAMONT PASS / SAN JOAQUIN	4	WIND	10,680	1/22/83
200	01W014	SEA WEST ENERGY - VIKING	ALTAMONT PASS / SAN JOAQUIN	4	WIND	1,560	1/22/83
201	01W012	SEA WEST ENERGY - WESTERN	ALTAMONT PASS / SAN JOAQUIN	4	WIND	900	1/22/83
202	01W094	TRES VAQUEROS WIND FARMS, LLC	ALTAMONT PASS / CONTRA COSTA	4	WIND	28,000	1/4/86
203	01W017	ZOND WINDSYSTEMS INC.	ALTAMONT PASS / ALAMEDA	4	WIND	20,000	12/30/85
Total:						641,318	

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