UNIT INFORMATION FORM FOR A GENERIC DISTRIBUTED GENERATION UNIT

Utility:	HECO
Unit Type:	CHP - Generic 200 kW Unit
Fuel Type:	No. 2 Diesel Fuel Oil
Site:	Customer's site

Unit Ratings:

	kW
Normal Top	212
Minimum	53

Capacity and Heat Rate Data:

Load Point	Gen Unit kW	Absorp. Chiller kW	Cooling Tower kW	Net Output kW	HHV Fuel Input Mbtu/Hr	DG Net Heat Rate Btu/kWh	CHP Heat Rate Btu/kWh
Normal Top	**211.5**	**42.6**	**-1.36**	**252.8**	**1.860**	**8,794**	**7,358**

Capital Costs:

	Total Cost	CHP Capacity $/kW	
Totals:	**$382,859**	**$1,515**	**HECO**

Operating & Maintenance Costs:

Variable Cost: **$0.0180** /kWh

Expenditure Pattern (percent per month)

1	2	3	4	5	6	7
5%	5%	10%	15%	25%	30%	10%

Notes on maintenance and unscheduled outages:

1. See "CHP O&M 9-29-03.xls" for detailed maintenance and outage assumptions
2. HESS recommended maintenance schedule was used to develop a 33-month maintenance pattern
3. Maintenance outages = 152 scheduled hours per year
4. Normalized annual overhaul outages = 36 scheduled hours per year
5. Unscheduled outages = 600 hours per year
6. Calculated EFOR = 600 / (8760-152-36) = 7.0%

Commercial Service:

Date Available	year	2003
Service Life	years	20

Operating Mode:

Duty Cycle	Baseload
Capacity Factor	84.2%
Est. Hrs/Yr	7,972

Lead Time Prior to Commercial Operation:

Design	mths	2.0
Permitting	mths	1.0
Procurement	mths	1.5
Factory Assembly	mths	1.0
Construction	mths	1.5
		7.0

Sch/Forced Outage Rate: **EFOR**

788 Hrs/Yr 7.0%

CHP Load Profile:

0600 - 2100	15 hrs	100% Load
2100 - 0600	9 hrs	80% Load

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UNIT INFORMATION FORM FOR A GENERIC DISTRIBUTED GENERATION UNIT

Utility:	HELCO
Unit Type:	CHP - Generic 200 kW Unit
Fuel Type:	No. 2 Diesel Fuel Oil
Site:	Customer's site

Unit Ratings:

	kW
Normal Top	212
Minimum	53

Capacity and Heat Rate Data:

Load Point	Gen Unit kW	Absorp. Chiller kW	Cooling Tower kW	Net Output kW	HHV Fuel Input Mbtu/Hr	DG Net Heat Rate Btu/kWh	CHP Heat Rate Btu/kWh
Normal Top	**211.5**	**42.6**	**-1.36**	**252.8**	**1.860**	**8,794**	**7,358**

Capital Costs:

	Total Cost	CHP Capacity $/kW	
Totals:	**$404,008**	**$1,598**	**HELCO**

Operating & Maintenance Costs:

Variable Cost: **$0.0200** /kWh

Expenditure Pattern (percent per month)

1	2	3	4	5	6	7
5%	5%	10%	15%	25%	30%	10%

Notes on maintenance and unscheduled outages:

1. See "CHP O&M 9-29-03.xls" for detailed maintenance and outage assumptions
2. HESS recommended maintenance schedule was used to develop a 33-month maintenance pattern
3. Maintenance outages = 152 scheduled hours per year
4. Normalized annual overhaul outages = 36 scheduled hours per year
5. Unscheduled outages = 600 hours per year
6. Calculated EFOR = 600 / (8760-152-36) = 7.0%

Commercial Service:

Date Available	year	2003
Service Life	years	20

Operating Mode:

Duty Cycle	Baseload
Capacity Factor	84.2%
Est. Hrs/Yr	7,972

Lead Time Prior to Commercial Operation:

Design	mths	2.0
Permitting	mths	1.0
Procurement	mths	1.5
Factory Assembly	mths	1.0
Construction	mths	1.5
		7.0

Sch/Forced Outage Rate: **EFOR**

788 Hrs/Yr 7.0%

CHP Load Profile:

0600 - 2100	15 hrs	100% Load
2100 - 0600	9 hrs	80% Load

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UNIT INFORMATION FORM FOR A GENERIC DISTRIBUTED GENERATION UNIT

Utility:	MECO
Unit Type:	CHP - Generic 200 kW Unit
Fuel Type:	No. 2 Diesel Fuel Oil
Site:	Customer's site

Unit Ratings:

	kW
Normal Top	212
Minimum	53

Capacity and Heat Rate Data:

Load Point	Gen Unit kW	Absorp. Chiller kW	Cooling Tower kW	Net Output kW	HHV Fuel Input Mbtu/Hr	DG Net Heat Rate Btu/kWh	CHP Heat Rate Btu/kWh
Normal Top	**211.5**	**42.6**	**-1.36**	**252.8**	**1.860**	**8,794**	**7,358**

Capital Costs:

	Total Cost	CHP Capacity $/kW	
Totals:	**$404,008**	**$1,598**	**MECO**

Operating & Maintenance Costs:

Variable Cost: **$0.0195** /kWh

Expenditure Pattern (percent per month)

1	2	3	4	5	6	7
5%	5%	10%	15%	25%	30%	10%

Notes on maintenance and unscheduled outages:

1. See "CHP O&M 9-29-03.xls" for detailed maintenance and outage assumptions
2. HESS recommended maintenance schedule was used to develop a 33-month maintenance pattern
3. Maintenance outages = 152 scheduled hours per year
4. Normalized annual overhaul outages = 36 scheduled hours per year
5. Unscheduled outages = 600 hours per year
6. Calculated EFOR = 600 / (8760-152-36) = 7.0%

Commercial Service:

Date Available	year	2003
Service Life	years	20

Operating Mode:

Duty Cycle	Baseload
Capacity Factor	84.2%
Est. Hrs/Yr	7,972

Lead Time Prior to Commercial Operation:

Design	mths	2.0
Permitting	mths	1.0
Procurement	mths	1.5
Factory Assembly	mths	1.0
Construction	mths	1.5
		7.0

Sch/Forced Outage Rate: **EFOR**

788 Hrs/Yr 7.0%

CHP Load Profile:

0600 - 2100	15 hrs	100% Load
2100 - 0600	9 hrs	80% Load

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