State of Florida

Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD
TALLAHASSEE, FLORIDA 32399-0850

-M-E-M-O-R-A-N-D-U-M-

110000-OT

DATE: May 4, 2011

TO: Ann Cole, Commission Clerk, Office of Commission Clerk

FROM: Phillip O. Ellis, Engineering Specialist II, Division of Regulatory Analysis
Traci L. Matthews, Government Analyst I, Division of Regulatory Analysis

RE: SEC's Response to 2011 Ten-Year Site Plan Supplemental Data Request #1

Attached is Seminole Electric Cooperative's Response to 2011 Ten-Year Site Plan Supplemental Data Request #1, submitted by April 29, 2011. Please place this item in Docket No. 110000 – Undocketed Filings for 2011, as it relates to the annual undocketed staff Ten-Year Site Plan Review project.

If you have any additional questions, please contact me.

POE

Attachment

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COMMISSION CLERK

DOCUMENT NUMBER-DATE
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2011 TEN YEAR SITE PLANS : SUPPLEMENTAL DATA REQUEST

Company Name: Seminole Electric Cooperative Inc.

Renewable Generation Resources

As used in the proceeding questions, the term "renewable energy" has the same meaning as used in Section 377.803, Florida Statutes. Please refer to the tables below when identifying fuel and generator types.

Fuel Types	Shorthand	Examples
Biomass	AB	Agriculture By-Products, Bagasse, Straw, Energy Crops.
	MSW	Municipal Solid Waste
	SLW	Sludge Waste.
	WDS	Wood / Wood Waste Solids
	OBS	Biomass Solids
Landfill Gas	LFG	Landfill gas.
Water	WAT	Hydro
Geothermal	GEO	Geothermal
Biofuels	WDL	Wood / Wood Waste Liquids
	BL	Black Liquor
	OBL	Biomass Liquids
	OBG	Biomass Gases
Solar	SUN	Solar Photovoltaic and Thermal devices
Waste Heat	WH	Waste heat from sulfuric acid manufacture
Wind	WND	Wind Energy.
Other	OTH	Any renewable not covered above. Please describe.

Generation Types	Shorthand
Combined Cycle - Steam Part	CA
Combined Cycle - Combustion Turbine Part	CT
Combined Cycle - Total Unit	CC
Compressed Air Energy Storage	CE
Combined Cycle Single Shaft	CS
Fuel Cell	FC
Combustion Turbine	GT
Hydraulic Turbine	HY
Hydraulic Turbine - Pumped Storage	PS
Internal Combustion Engine	IC
Not Available	NA
Other	OT
Photovoltaic Cells	PV
Steam Turbine	ST
Wind Turbine	WT

DOCUMENT NUMBER-DATE
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GENERAL QUESTIONS

1. Please provide all data requested in the attached forms labeled 'Appendix A,' in electronic (Excel) and hard copy. If any of the requested data is already included in the Company's Ten-Year Site Plan, state so on the appropriate form.

2. Please provide all data requested in the attached forms labeled 'Appendix B,' which consist of Schedules 1 through 10 from the Company's Ten-Year Site Plan, in an electronic copy in Excel (.xls file format).

LOAD & DEMAND FORECASTING

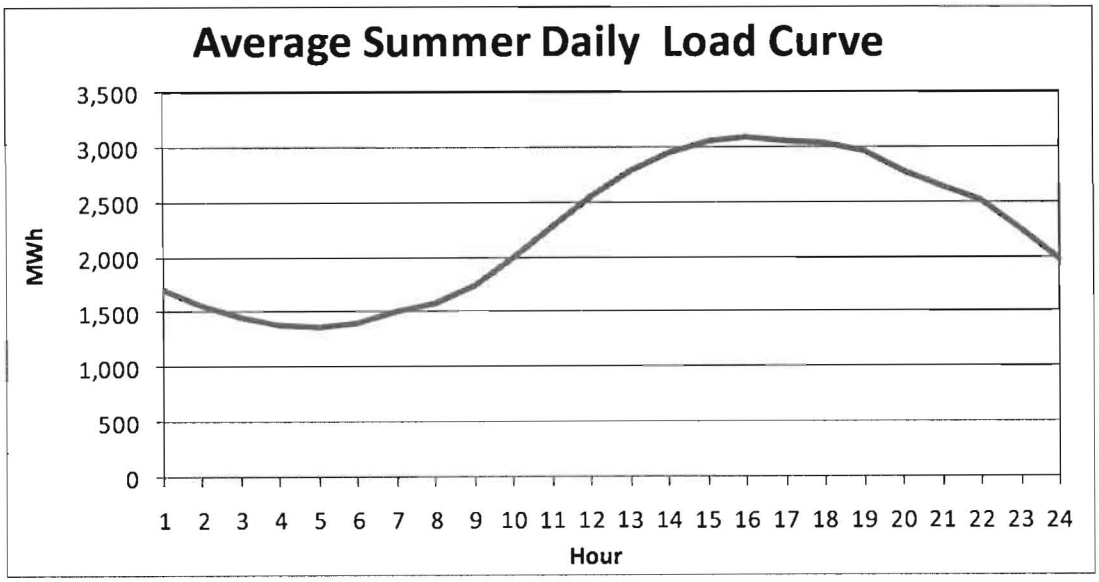
3. Please provide, on a system-wide basis, an average month of observed peak capacity values for Summer and Winter. From this data, excluding weekends and holidays, generate an average seasonal Daily Loading Curve. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

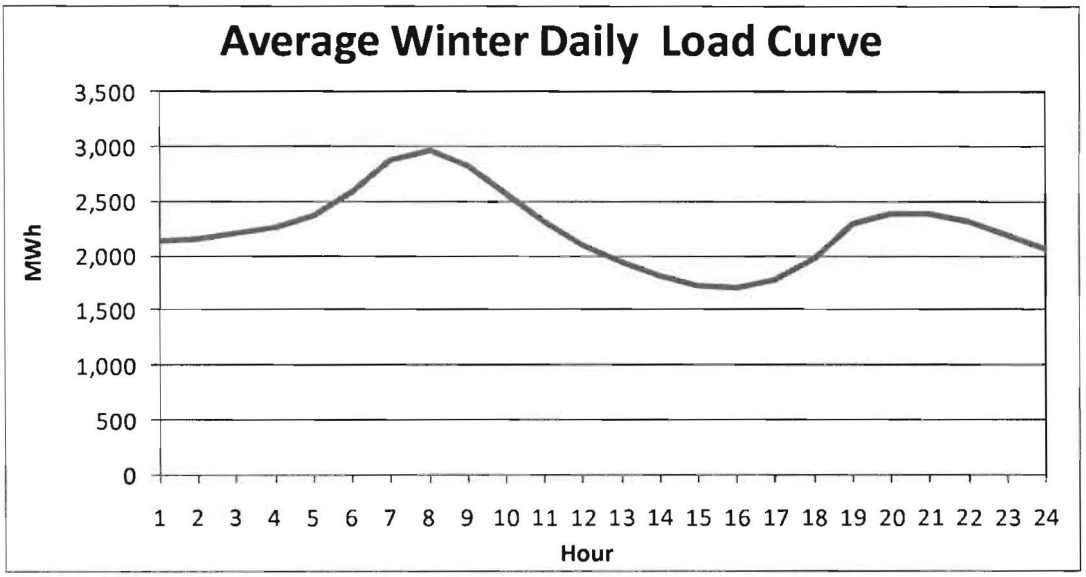
Typical Summer Month

Year	Month	Day	Day of	Observed Hourly Peak Capacity (MW)																						MAX	MIN
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	(MW)	(MW)
10	7	1	Th	1,485	1,362	1,292	1,248	1,247	1,312	1,437	1,529	1,641	1,811	2,030	2,250	2,437	2,560	2,613	2,631	2,613	2,545	2,434	2,305	2,222	2,109	1,905	1,676	2,631	1,247
10	7	2	Fr	1,487	1,363	1,289	1,247	1,242	1,297	1,407	1,484	1,584	1,719	1,877	2,016	2,153	2,271	2,339	2,360	2,341	2,322	2,234	2,117	2,049	2,007	1,859	1,663	2,360	1,242
10	7	5	Mo	1,454	1,324	1,237	1,187	1,176	1,205	1,260	1,328	1,489	1,712	1,928	2,105	2,241	2,336	2,409	2,425	2,419	2,414	2,342	2,232	2,175	2,084	1,877	1,629	2,425	1,176
10	7	6	Tu	1,427	1,302	1,219	1,170	1,164	1,228	1,346	1,439	1,573	1,773	2,016	2,260	2,480	2,658	2,764	2,789	2,707	2,593	2,477	2,333	2,231	2,130	1,913	1,677	2,789	1,164
10	7	7	We	1,470	1,336	1,254	1,205	1,187	1,248	1,356	1,432	1,618	1,854	2,110	2,375	2,609	2,789	2,931	3,026	3,074	3,077	2,999	2,809	2,612	2,466	2,177	1,857	3,077	1,187
10	7	8	Th	1,601	1,428	1,307	1,234	1,206	1,250	1,346	1,421	1,589	1,823	2,087	2,362	2,630	2,859	3,034	3,159	3,245	3,258	3,213	3,034	2,809	2,637	2,329	2,001	3,258	1,206
10	7	9	Fr	1,739	1,558	1,431	1,352	1,321	1,359	1,448	1,528	1,715	1,987	2,316	2,633	2,916	3,138	3,280	3,348	3,365	3,352	3,292	3,082	2,863	2,688	2,400	2,098	3,365	1,321
10	7	12	Mo	1,722	1,583	1,489	1,437	1,424	1,483	1,592	1,670	1,832	2,057	2,278	2,458	2,605	2,704	2,803	2,915	3,007	3,034	2,967	2,791	2,636	2,500	2,224	1,937	3,034	1,424
10	7	13	Tu	1,701	1,543	1,445	1,381	1,359	1,408	1,508	1,586	1,772	2,035	2,328	2,600	2,837	3,023	3,149	3,231	3,202	3,289	3,221	3,033	2,821	2,673	2,370	2,067	3,289	1,359
10	7	14	We	1,815	1,642	1,535	1,467	1,441	1,487	1,588	1,650	1,805	2,066	2,361	2,649	2,905	3,111	3,205	3,265	3,236	3,120	2,984	2,817	2,675	2,531	2,292	2,010	3,265	1,441
10	7	15	Th	1,796	1,641	1,540	1,476	1,457	1,503	1,610	1,679	1,796	1,997	2,246	2,514	2,761	2,860	2,754	2,641	2,493	2,364	2,267	2,163	2,104	2,037	1,849	1,624	2,860	1,457
10	7	16	Fr	1,437	1,317	1,242	1,200	1,192	1,243	1,356	1,439	1,604	1,857	2,178	2,468	2,726	2,900	3,035	3,111	3,161	3,117	2,981	2,798	2,638	2,500	2,260	2,006	3,161	1,192
10	7	19	Mo	1,838	1,672	1,561	1,492	1,472	1,518	1,613	1,675	1,862	2,146	2,460	2,762	3,005	3,180	3,291	3,358	3,352	3,332	3,217	3,038	2,878	2,721	2,439	2,145	3,358	1,472
10	7	20	Tu	1,904	1,736	1,621	1,540	1,505	1,540	1,633	1,700	1,883	2,167	2,470	2,753	2,991	3,192	3,338	3,388	3,337	3,336	3,368	3,200	3,033	2,872	2,562	2,248	3,388	1,505
10	7	21	We	1,986	1,800	1,674	1,588	1,552	1,580	1,660	1,706	1,850	2,109	2,412	2,712	2,972	3,177	3,324	3,418	3,322	3,417	3,392	3,206	3,006	2,842	2,530	2,205	3,418	1,552
10	7	22	Th	1,935	1,737	1,594	1,501	1,463	1,492	1,582	1,631	1,785	2,058	2,355	2,647	2,907	3,122	3,271	3,401	3,350	3,358	3,382	3,217	3,013	2,829	2,513	2,192	3,401	1,463
10	7	23	Fr	1,929	1,747	1,620	1,529	1,488	1,519	1,606	1,666	1,836	2,086	2,361	2,600	2,790	2,912	2,990	2,975	2,923	2,856	2,750	2,622	2,543	2,459	2,264	2,044	2,990	1,488
10	7	26	Mo	1,793	1,626	1,513	1,442	1,421	1,461	1,558	1,635	1,829	2,122	2,451	2,755	3,001	3,186	3,270	3,317	3,353	3,371	3,307	3,122	2,937	2,758	2,440	2,129	3,371	1,421
10	7	27	Tu	1,876	1,711	1,598	1,528	1,502	1,537	1,634	1,693	1,879	2,179	2,501	2,809	3,069	3,265	3,405	3,488	3,421	3,478	3,402	3,224	3,047	2,868	2,550	2,244	3,488	1,502
10	7	28	We	2,000	1,828	1,704	1,617	1,581	1,615	1,708	1,771	1,949	2,232	2,569	2,909	3,177	3,325	3,336	3,252	3,106	2,936	2,794	2,652	2,539	2,405	2,171	1,908	3,336	1,581
10	7	29	Th	1,696	1,557	1,465	1,402	1,384	1,434	1,546	1,613	1,788	2,079	2,431	2,783	3,083	3,272	3,288	3,232	3,141	3,065	2,985	2,848	2,742	2,624	2,364	2,082	3,288	1,384
10	7	30	Fr	1,851	1,697	1,595	1,534	1,512	1,553	1,651	1,722	1,920	2,211	2,524	2,860	3,133	3,301	3,400	3,456	3,372	3,385	3,233	3,020	2,869	2,728	2,482	2,222	3,456	1,512
		AVG		1,725	1,569	1,465	1,399	1,377	1,421	1,520	1,591	1,755	2,004	2,286	2,558	2,792	2,961	3,056	3,099	3,070	3,046	2,966	2,803	2,656	2,521	2,262	1,985	3,099	1,377
		MAX		2,000	1,828	1,704	1,617	1,581	1,615	1,708	1,771	1,949	2,232	2,569	2,909	3,177	3,325	3,405	3,488	3,421	3,478	3,402	3,224	3,047	2,872	2,562	2,248	3,488	1,581
		MIN		1,427	1,302	1,219	1,170	1,164	1,205	1,260	1,328	1,489	1,712	1,877	2,016	2,153	2,271	2,339	2,360	2,341	2,322	2,234	2,117	2,049	2,007	1,849	1,624	2,360	1,164

Typical Winter Month

Year	Month	Day	Day of	Observed Hourly Peak Capacity (MW)																								MAX (MW)	MIN (MW)
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
10	1	4	Mo	2,854	2,894	2,965	3,068	3,200	3,437	3,616	3,730	3,619	3,434	3,154	2,831	2,564	2,342	2,181	2,123	2,246	2,617	3,068	3,208	3,247	3,190	3,049	2,908	3,730	2,123
10	1	5	Tu	2,778	2,717	2,722	2,767	2,874	3,110	3,433	3,574	3,505	3,321	3,109	2,879	2,695	2,525	2,412	2,382	2,514	2,917	3,387	3,554	3,612	3,551	3,407	3,297	3,612	2,382
10	1	6	We	3,279	3,339	3,405	3,491	3,634	3,899	4,081	4,162	3,970	3,653	3,410	3,069	2,769	2,515	2,338	2,277	2,399	2,777	3,261	3,444	3,549	3,548	3,435	3,333	4,162	2,277
10	1	7	Th	3,330	3,403	3,507	3,612	3,756	4,023	4,206	4,288	4,094	3,721	3,148	2,689	2,318	2,050	1,877	1,823	1,923	2,245	2,690	2,872	2,961	2,935	2,838	2,721	4,288	1,823
10	1	8	Fr	2,659	2,655	2,667	2,647	2,664	2,792	3,007	3,016	2,822	2,635	2,501	2,420	2,380	2,330	2,294	2,322	2,451	2,663	2,863	2,874	2,852	2,804	2,708	2,612	3,016	2,294
10	1	11	Mo	3,782	3,872	3,991	4,134	4,323	4,627	4,826	4,900	4,660	4,232	3,773	3,295	2,884	2,585	2,373	2,296	2,408	2,814	3,372	3,620	3,743	3,745	3,648	3,576	4,900	2,296
10	1	12	Tu	3,605	3,709	3,839	3,958	4,088	4,357	4,662	4,676	4,347	3,733	3,129	2,679	2,356	2,121	1,969	1,929	2,025	2,351	2,804	2,983	3,061	3,063	2,991	2,911	4,676	1,929
10	1	13	We	2,938	3,049	3,185	3,320	3,491	3,784	4,150	4,247	3,960	3,437	2,930	2,505	2,195	1,954	1,817	1,788	1,916	2,252	2,678	2,834	2,902	2,890	2,791	2,695	4,247	1,788
10	1	14	Th	2,708	2,797	2,910	3,024	3,165	3,420	3,726	3,728	3,453	2,952	2,464	2,077	1,825	1,652	1,547	1,512	1,565	1,738	2,051	2,139	2,143	2,069	1,929	1,786	3,728	1,512
10	1	15	Fr	1,709	1,703	1,731	1,779	1,875	2,105	2,424	2,517	2,335	2,060	1,828	1,659	1,555	1,489	1,443	1,424	1,449	1,549	1,738	1,726	1,663	1,577	1,457	1,319	2,517	1,319
10	1	18	Mo	1,123	1,066	1,049	1,051	1,095	1,211	1,388	1,552	1,672	1,731	1,738	1,701	1,646	1,565	1,515	1,501	1,538	1,688	1,957	2,005	1,953	1,853	1,718	1,571	2,005	1,049
10	1	19	Tu	1,490	1,482	1,510	1,558	1,661	1,908	2,268	2,408	2,302	2,054	1,823	1,641	1,539	1,462	1,411	1,400	1,436	1,570	1,840	1,900	1,859	1,773	1,636	1,506	2,408	1,400
10	1	20	We	1,440	1,446	1,491	1,549	1,660	1,904	2,256	2,365	2,202	1,950	1,743	1,594	1,499	1,436	1,401	1,402	1,443	1,559	1,778	1,794	1,714	1,593	1,415	1,241	2,365	1,241
10	1	21	Th	1,129	1,081	1,068	1,067	1,108	1,266	1,518	1,596	1,544	1,529	1,531	1,529	1,529	1,507	1,491	1,497	1,546	1,640	1,791	1,790	1,698	1,551	1,371	1,189	1,791	1,067
10	1	22	Fr	1,050	978	943	934	957	1,075	1,305	1,412	1,420	1,458	1,498	1,518	1,523	1,519	1,518	1,524	1,533	1,563	1,691	1,674	1,587	1,487	1,366	1,223	1,691	934
10	1	25	Mo	1,109	1,036	997	982	992	1,080	1,280	1,382	1,401	1,449	1,489	1,499	1,493	1,469	1,435	1,421	1,438	1,534	1,762	1,819	1,760	1,646	1,501	1,355	1,819	982
10	1	26	Tu	1,267	1,251	1,274	1,326	1,430	1,677	2,050	2,204	2,074	1,850	1,693	1,589	1,514	1,451	1,418	1,409	1,452	1,590	1,876	1,984	1,968	1,915	1,796	1,671	2,204	1,251
10	1	27	We	1,613	1,625	1,673	1,756	1,896	2,182	2,586	2,720	2,517	2,186	1,942	1,750	1,609	1,499	1,431	1,414	1,453	1,591	1,892	2,010	2,027	1,990	1,886	1,763	2,720	1,414
10	1	28	Th	1,709	1,735	1,799	1,888	2,029	2,306	2,688	2,795	2,563	2,170	1,866	1,663	1,540	1,456	1,396	1,388	1,422	1,528	1,781	1,866	1,848	1,764	1,623	1,485	2,795	1,388
10	1	29	Fr	1,400	1,383	1,389	1,416	1,494	1,693	1,990	2,068	1,958	1,807	1,654	1,537	1,464	1,413	1,381	1,372	1,393	1,459	1,627	1,632	1,566	1,481	1,365	1,229	2,068	1,229
		AVG		2,149	2,161	2,206	2,266	2,370	2,593	2,873	2,967	2,821	2,568	2,321	2,106	1,945	1,817	1,732	1,710	1,778	1,982	2,295	2,386	2,386	2,321	2,197	2,070	2,967	1,710
		MAX		3,782	3,872	3,991	4,134	4,323	4,627	4,826	4,900	4,660	4,232	3,773	3,295	2,884	2,585	2,412	2,382	2,514	2,917	3,387	3,620	3,743	3,745	3,648	3,576	4,900	2,382
		MIN		1,050	978	943	934	957	1,075	1,280	1,382	1,401	1,449	1,489	1,499	1,464	1,413	1,381	1,372	1,393	1,459	1,627	1,632	1,566	1,481	1,365	1,189	1,632	934




Average Winter Daily Load Curve
3,500
3,000
2,500
2,000
1,500
1,000
500
0
MWh
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Hour

4. Please provide, on a system-wide basis, historical annual heating degree day (HDD) and cooling degree day (CDD) data for the period 2001 through 2010 and forecasted annual HDD and CDD data for the period 2011 through 2020. Describe how the Company derives system-wide temperature if more than one weather station is used. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

For modeling purposes, Seminole uses heating degree hours (HDH), not heating degree days (HDD) and cooling degree hours (CDH), not cooling degree days (CDD). Seminole obtains hourly weather data for five weather stations located in or around Seminole's member's service area. In order to reflect weather conditions in each member's service territory, different weather stations are assigned to individual member systems based on geographic proximity. Most of the member systems are assigned multiple weather stations. Seminole's system-wide temperature represents a weighted average temperature of the member systems' average temperature. Each member's peak demand as a percentage of Seminole's total demand is used as the weighting factor.

Year		HDH	CDH
Actual	2001	12,507	28,530
	2002	13,853	35,064
	2003	15,330	32,651
	2004	13,460	32,528
	2005	12,302	33,708
	2006	10,302	33,434
	2007	9,811	35,486
	2008	11,486	32,654
	2009	13,167	36,737
	2010	26,236	37,859
Projected	2011	12,713	33,624
	2012	12,713	33,624
	2013	12,713	33,624
	2014	12,713	33,624
	2015	12,713	33,624
	2016	12,713	33,624
	2017	12,713	33,624
	2018	12,713	33,624
	2019	12,713	33,624
	2020	12,713	33,624

5. Please provide the following data to support Schedule 4 of the Company =s Ten-Year Site Plan: the 12 monthly peak demands for the years 2008, 2009, and 2010; the date when these monthly peaks occurred; and, the temperature at the time of these monthly peaks. Describe how the Company derives system-wide temperature if more than one weather station is used. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Seminole obtains hourly weather data for five weather stations located in or around Seminole's member's service area. In order to reflect weather conditions in each member's service territory, different weather stations are assigned to individual member systems based on geographic proximity. Most of the member systems are assigned multiple weather stations. Seminole's system-wide temperature represents a weighted average temperature of the member systems' average temperature. Each member's peak demand as a percentage of Seminole's total demand is used as the weighting factor.

Year	Month	Peak Demand (MW)	Date	Day of Week	Hour	Temperature (F)
2008	1	4,221	3	Thursday	8	29.2
	2	3,345	28	Thursday	8	37.1
	3	2,844	9	Sunday	9	40.5
	4	2,834	12	Saturday	17	87.7
	5	3,566	31	Saturday	17	93.3
	6	3,576	5	Thursday	17	95.7
	7	3,590	21	Monday	16	93.7
	8	3,604	6	Wednesday	16	93.9
	9	3,630	7	Sunday	17	92.7
	10	3,113	12	Sunday	17	88.7
	11	3,182	20	Thursday	8	36.9
	12	3,406	3	Wednesday	8	37.5
2009	1	4,670	22	Thursday	8	29.6
	2	4,738	6	Friday	8	28.6
	3	3,417	3	Tuesday	8	36.4
	4	2,751	30	Thursday	18	89.0
	5	3,443	11	Monday	18	93.8
	6	3,818	22	Monday	17	97.1
	7	3,577	5	Sunday	17	94.1
	8	3,583	11	Tuesday	17	94.6
	9	3,361	20	Sunday	17	92.1
	10	3,486	9	Friday	17	93.2
	11	2,466	1	Sunday	15	42.6
	12	3,118	29	Tuesday	8	37.3
2010	1	5,047	11	Monday	8	25.7
	2	3,746	26	Friday	8	34.5
	3	3,478	5	Friday	8	36.3
	4	2,444	23	Friday	18	86.7
	5	3,257	22	Saturday	17	92.9
	6	3,416	24	Thursday	17	98.3
	7	3,548	27	Tuesday	17	97.5
	8	3,448	2	Monday	17	95.5
	9	3,428	11	Saturday	15	94.2
	10	2,921	27	Wednesday	17	90.0
	11	2,334	8	Monday	8	42.1
	12	4,315	28	Tuesday	8	27.9

6. Please discuss any recent trends in customer growth, by customer type (residential, industrial & commercial, etc), and as a whole. Please explain the nature or reason for these trends, and identify what types of customers are most affected by these trends. (For example, is a decline in customers a loss of temporary construction meters or a decline in population?)

Residential, commercial, and total consumers served by the Seminole system declined in 2010. The reason for the decline is that beginning in 2010 Seminole started the process of phasing out their all requirements service to Lee County Electric Cooperative (LCEC) and only served approximately 70 percent of the LCEC total load requirements. However, collectively the other nine Members showed residential consumer growth of less than 1 percent while commercial/industrial and other consumers declined slightly. This serves to illustrate that the effects of the economy; the over building in the housing and commercial markets, Florida's high unemployment rate, and Florida's slower population growth are still holding back consumer growth.

7. Please discuss any impacts of "smart" or digital meter installations on forecasting sales and net energy for load. Please explain the nature or reason for these trends, and identify what types of customers are most affected by these trends. (For example, are increased sales due to more accurate measurement of low-load conditions?)

The forecast does not directly reflect any effects of smart meter programs of the Members.

RENEWABLE GENERATION

8. Please provide the estimated total capacity of all renewable resources the utility owns or purchases as of January 1, 2011. Include in this value the sum of all utility-owned, and purchased power contracts (firm and non-firm), and purchases from as-available energy producers (net-metering, self-generators, etc.). Please also include the estimated total capacity of all renewable resources (firm and non-firm) the utility is anticipated to own or purchase as of the end of the planning period in 2020.

Fuel Type	Renewable Resource Capacity (MW)	
	Existing	Planned
Solar	0	0
Wind	0	0
Biomass	13	38
Municipal Solid Waste	93	58
Waste Heat	0	0
Landfill Gas	17	2
Hydro	0	0
Total	123	98

Existing represents as of Jan 2011
Planned represents all resources as of Jan 2020

9. Please provide a description of each existing utility-owned renewable generation resource and each renewable purchased power agreement as of January 1, 2011. For both utility-owned and purchased resources, please divide them into Firm and Non-Firm categories as shown below. Please also include those renewable resources which provide fuel to conventional facilities, if applicable, with estimates of their capacity and energy contributions. As part of this response, please include the description of the unit's generator type, fuel type, commercial in-service date, seasonal net capacity (even if not considered firm capacity), annual energy generation. For purchased power agreements, also provide the contract start and end dates. Please complete the tables below and provide an electronic copy in Excel format and hardcopy.

Existing Renewables as of January 1, 2011

Utility-Owned Firm Renewable Resources

Facility Name	Unit Type	Fuel Type	Commercial In-Service Date	Net Capacity (kW)		Annual Generation	Capacity Factor
-	-	-	(MM/YYYY)	Sum	Win	(MWh)	(%)
N/A							

Utility-Owned Non-Firm Renewable Resources

Facility Name	Unit Type	Fuel Type	Commercial In-Service Date	Net Capacity (kW)		Annual Generation	Capacity Factor
-	-	-	(MM/YYYY)	Sum	Win	(MWh)	(%)
N/A							

Firm Renewable Purchased Power Agreements

Facility Name	Unit Type	Fuel Type	Unit Commercial In-Service Date	Net Capacity (kW)		Annual Generation	Capacity Factor	Contract Start Date	Contract End Date
-	-	-	(MM/YYYY)	Sum	Win	(MWh)*	(%)		
Hillsborough Waste to Energy	ST	MSW		38,000	38,000	319,580	96.0	Mar-10	Feb-25
Lee County Resource Recovery	ST	MSW		50,000	55,000	404,085	83.9	Apr-07	Dec-16
Seminole Landfill	ST	LFG		6,000	6,000	42,050	80.0	Oct-07	Mar-18
Brevard Landfill	ST	LFG		9,000	9,000	67,280	85.3	Apr-08	Mar-18
Telogia Power	ST	WDS		13,000	13,000	93,204	81.8	Jul-07	Nov-23
Timberline Energy	ST	LFG		2,000	2,000	13,455	96.0	Feb-08	Mar-20

*** 2011 projected data or first full year of availability, as applicable**

Non-Firm Renewable Purchased Power Agreements

Facility Name	Unit Type	Fuel Type	Unit Commercial In-Service Date	Net Capacity (kW)		Annual Generation	Capacity Factor	Contract Start Date	Contract End Date
-	-	-	(MM/YYYY)	Sum	Win	(MWh)	(%)		
N/A									

10. Please provide a description of each existing utility-owned renewable generation resource and each renewable purchased power agreement planned during the 2011 through 2020 period. For both utility-owned and purchased resources, please divide them into Firm and Non-Firm categories as shown below. Please also include those renewable resources which provide fuel to conventional facilities, if applicable, with estimates of their capacity and energy contributions. As part of this response, please include the description of the unit's generator type, fuel type, commercial in-service date, seasonal net capacity (even if not considered firm capacity), annual energy generation. For purchased power agreements, also provide the contract start and end dates. Please complete the tables below and provide an electronic copy in Excel format and hardcopy.

Planned Renewables for 2011 through 2020

Utility-Owned Firm Renewable Resources

Facility Name	Unit Type	Fuel Type	Commercial In-Service Date	Net Capacity (kW)		Annual Generation	Capacity Factor
-	-	-	(MM/YYYY)	Sum	Win	(MWh)	(%)
N/A							

Utility-Owned Non-Firm Renewable Resources

Facility Name	Unit Type	Fuel Type	Commercial In-Service Date	Net Capacity (kW)		Annual Generation	Capacity Factor
-	-	-	(MM/YYYY)	Sum	Win	(MWh)	(%)
N/A							

Firm Renewable Purchased Power Agreements

Facility Name	Unit Type	Fuel Type	Unit Commercial In-Service Date	Net Capacity (kW)		Annual Generation	Capacity Factor	Contract Start Date	Contract End Date
-	-	-	(MM/YYYY)	Sum	Win	(MWh)*	(%)		
City of Tampa-McKay Bay	ST	MSW		20,000	20,000	69,780	95.0	Aug-11	Jul-26
Southeast Renewable Fuels	ST	AB		25,000	25,000	191,550	87.5	Jan-13	Nov-31

*** 2011 projected data or first full year of availability, as applicable**

Non-Firm Renewable Purchased Power Agreements

Facility Name	Unit Type	Fuel Type	Unit Commercial In-Service Date	Net Capacity (kW)		Annual Generation	Capacity Factor	Contract Start Date	Contract End Date
-	-	-	(MM/YYYY)	Sum	Win	(MWh)	(%)		
N/A									

11. Please refer to the list of planned utility-owned renewable resource additions with an in-service date for the renewable generator during the 2011 through 2020 period outlined above. Please discuss the current status of each project.

Not applicable - Seminole does not have any planned utility-owned renewable resource additions during the 2011 through 2020 period.

12. Please refer to the list of existing or planned renewable PPAs with an in-service date for the renewable generator during the 2011 through 2020 period outlined above. Please discuss the current status of each project.

The City of Tampa's McKay Bay Waste to Energy facility is an existing facility. The City of Tampa is ending its current power purchase agreement with Tampa Electric Company and will be selling capacity and energy to Seminole immediately thereafter.

The Southeast Renewable Fuels facility is in development. A majority of the needed permits have been acquired and facility construction is expected to begin mid-year 2011. The facility is expected to begin commercial operation in 2013.

13. Please provide a description of each renewable facility in the company's service territory that it does not currently have a PPA with, including self-service facilities. As part of this response, please include the description of the unit's location, generator type, fuel type, commercial in-service date, seasonal net capacity (even if not considered firm capacity), annual energy generation. Please exclude from this response small customer-owned renewable resources, such as rooftop PV, which are more appropriately included in the following question. Please complete the tables below and provide an electronic copy in Excel format and hardcopy.

Not applicable - Seminole does not serve any retail load. Seminole's Members have customer-owned renewable generation programs whose impact is reflected in the load forecast.

Facility Name	Unit Type	Fuel Type	Commercial In-Service Date	Net Capacity (kW)		Annual Generation	Capacity Factor
-	-	-	(MM/YYYY)	Sum	Win	(MWh)	(%)

14. Please provide the number of customer-owned renewable resources within the Company's service territory. Please organize by resource type, and include total estimated installed capacity and annual output. Please exclude from this response any customer-owned renewable resources already accounted for under PPAs or other sources. If renewable energy types beyond those listed were utilized, please include an additional row and a description of the renewable fuel and generator. For non-electricity generating renewable energy systems, such as geothermal cooling and solar hot water heaters, please use kilowatt-equivalent and kilowatt-hour-equivalent units. Please complete the tables below and provide an electronic copy in Excel (.xls file format) and hard copy.

Not applicable - Seminole does not serve any retail load. Seminole's Members have customer-owned renewable generation programs whose impact is reflected in the load forecast.

Customer Class	Renewable Type	# of Connections	Installed Capacity (kW)	Annual Output (kWh)
Residential	Solar Photovoltaic			
Residential	Solar Thermal Water Heating			
Residential	Geothermal Heat Pump			
Residential	Wind Turbine			
Residential	Other (Describe)			
Commercial	Solar Photovoltaic			
Commercial	Solar Thermal Water Heating			
Commercial	Geothermal Heat Pump			
Commercial	Wind Turbine			
Commercial	Other (Describe)			

15. Please provide the annual output for the company's renewable resources (owned and purchased through PPA), retail sales, and the net energy for load for the period 2010 through 2020. Please complete the tables below and provide an electronic copy in Excel (.xls file format) and hard copy.

Annual Output (GWh)		Actual	Projected									
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Renewable Generation	Utility	0	0	0	0	0	0	0	0	0	0	0
	PPA	756	1008	1108	1297	1364	1366	1368	916	822	791	783
	Total	756	1008	1108	1297	1364	1366	1368	916	822	791	783
Retail Sales		0	0	0	0	0	0	0	0	0	0	0
Net Energy for Load		17346	17261	17884	18490	15828	16212	16693	17178	17669	18180	18691

16. Provide, on a system-wide basis, the historical annual average as-available energy rate in the Company's service territory for the period 2001 through 2010. Also, provide the forecasted annual average as-available energy rate in the Company's service territory for the period 2011 through 2020. Please use the Consumer Price Index to calculate real as-available energy rates. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Year	As-Available Energy ($/MWh)		CPI
	Real	Nominal	
2001	3.19		
2002	3.19		
2003	3.19		
2004	3.19		
2005	4.50		
2006	5.00		
2007	6.39		
2008	6.39		
2009	5.10		
2010	5.10		
2011	4.67		
2012	4.87		
2013	5.06		
2014	4.54		
2015	4.98		
2016	5.39		
2017	6.14		
2018	6.57		
2019	7.05		
2020	7.47		

17. Please discuss any studies conducted or planned regarding the use combinations of renewable and fossil fuels in existing or future fossil units. What potential does the Company identify in this area?

Seminole staff completed an assessment of the operational and economic feasibility associated with co-firing biomass in its pulverized coal units at its Seminole Generating Station (SGS). The assessment found that because SGS lacks excess mill (pulverizer) capability, direct blending biomass with coal ahead of the coal mills would not be feasible. Blending biomass acts much like wet coal and would cause significant de-rating which is deemed unacceptable. The only option at SGS would be to direct-feed biomass into the boiler using a separate pneumatic fuel feed system. Past assessments by staff of industry experience in this area suggest that co-firing capability of existing pulverized coal units (typical of SGS) would likely be limited to nominally 5% to avoid

unacceptable impacts on operational reliability, economy, or would require extensive plant modifications.

18. Please discuss any planned renewable generation or renewable purchased power agreements within the past 5 years that did not materialize. What was the primary reason these generation plans or purchased power contracts were not realized? What, if any, were the secondary reasons?

Seminole recently cancelled a purchased power agreement for the output from Timberline Energy's to be constructed Sarasota Bee Ridge facility (3.2 MW).

19. Please discuss whether the company purchases or sells Renewable Energy Credits. As part of this response, please discuss whether the company offers the sale of Renewable Energy Credits to its customers through a green pricing or similar program.

Seminole recently made a small number of ad hoc sales of Renewable Energy Credits to third parties. Seminole and its member systems do not offer a green pricing program.

TRADITIONAL GENERATION

20. Please provide the cumulative present worth revenue requirement of the Company's Base Case for the 2011 Ten-Year Site Plan. If available, please provide the cumulative present worth revenue requirement for any sensitivities conducted of the Company's generation expansion plan.

The cumulative present worth revenue requirement of the Company's Base case for the 2011 Ten-Year Site Plan is $11.130 billion.

21. Please illustrate what the Company=s generation expansion plan would be as a result of sensitivities to the base case demand. Include impacts on unit in-service dates for any possible delays, cancellations, accelerated completion, or new additions as a result.

Seminole did not generate alternative expansion plans based on load sensitivities.

22. Please complete the following table detailing planned unit additions, including information on capacity and in-service dates. Please include only planned conventional units with an in-service date past January 1, 2011, and including nuclear units, nuclear unit uprates, combustion turbines, and combined-cycle units. For each planned unit, provide the date of the Commission's Determination of Need and Power Plant Siting Act certification (if applicable), and the anticipated in-service date.

Planned Unit Additions for 2011 through 2020

Generating Unit Name	Summer Capacity (MW)	Certification Dates (if Applicable)		In-Service Date
		Need Approved (Commission)	PPSA Certified	
Nuclear Unit Additions / Uprates				
Crystal River	15			Apr-11
Crystal River	17			Jan-13
Combustion Turbine Unit Additions				
Unnamed CT1	158			Dec-18
Unnamed CT2	158			May-19
Unnamed CT3	158			May-19
Unnamed CT4	158			Dec-20
Unnamed CT5	158			Dec-20
Unnamed CT6	158			Dec-20
Combined Cycle Unit Additions				
Unnamed CC1	196			Dec-20
Unnamed CC2	196			Dec-20
Steam Turbine Unit Additions				

23. For each of the generating units contained in the Company=s Ten-Year Site Plan, please discuss the Adrop dead@ date for a decision on whether or not to construct each unit. Provide a time line for the construction of each unit, including regulatory approval, and final decision point.

A definitive "drop dead" date has not been identified on whether or not to construct each unit in Seminole's Ten-Year Site Plan.

24. Please complete the following table detailing unit specific information on capacity and fuel consumption for 2010. For each unit on the Company's system, provide the following data based upon historic data from 2010: the unit's capacity; annual generation; resulting capacity factor; estimated annual availability factor; unit average heat rate; quantity of fuel burned; average cost of fuel; and resulting average energy cost for the unit's production. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Plant	Unit #	Unit Type	Fuel Type	Nameplate Capacity	Net Capacity (MW)		Annual Generation	Capacity Factor	Availability Factor	In-Service Date
				(MW)	Sum	Win	(MWh)	(%)	(%)	
SGS	1	ST	BIT	715	647	660	4,513,333.0	76.3	88.9	Feb-84
SGS	2	ST	BIT	715	663	666	4,416,186.0	73.3	86.5	Dec-84
CR	3	ST	NUC	890	13	13	0.0	0.0	0.0	Mar-77
MGS	1	CT	NG	587	158	172	847,304.5	59.0	90.0	Jan-02
MGS	2	CT	NG	587	158	172	768,803.5	53.5	89.3	Jan-02
MGS	3	CA	NG	587	168	172	885,391.0	60.9	95.2	Jan-02
MGS PW CT	4	CT	NG	312	54	62	66,937.8	14.2	99.1	Dec-06
MGS PW CT	5	CT	NG	312	54	62	57,332.8	12.1	95.8	Dec-06
MGS PW CT	6	CT	NG	312	54	62	58,332.8	12.3	98.4	Dec-06
MGS PW CT	7	CT	NG	312	54	62	63,640.8	13.5	98.3	Dec-06
MGS PW CT	8	CT	NG	312	54	62	72,224.8	15.3	97.7	Dec-06

Plant	Unit #	Fuel Type	Heat Rate	Total Fuel Burned	Total Fuel Cost	Unit Fuel Cost	
			(BTU/kWh)	(MMBTU)	($000)	($/MMBTU)	(¢/kWh)
SGS	1	BIT	9,914	44,743,223.8	309,399	3.49	0.035
SGS	2	BIT	9,924	43,827,816.7	309,399	3.49	0.035
CR	3	NUC	0	0.0	0	0.00	0.000
MGS	1	NG	7,657	6,488,090.5	142,130	7.49	0.057
MGS	2	NG	7,681	5,905,115.7	142,130	7.49	0.057
MGS	3	NG	7,426	6,575,161.7	142,130	7.49	0.057
MGS PW CT	4	NG	11,518	770,975.7	28,079	7.65	0.088
MGS PW CT	5	NG	11,527	660,867.5	28,079	7.65	0.088
MGS PW CT	6	NG	11,526	672,326.6	28,079	7.65	0.088
MGS PW CT	7	NG	11,521	733,178.0	28,079	7.65	0.088
MGS PW CT	8	NG	11,514	831,570.2	28,079	7.65	0.088

25. For each unit on the Company's system, provide the following data based upon historic data from 2010 and forecasted capacity factor values for the period 2011 through 2020. Please complete the tables below and provide an electronic copy in Excel (.xls file format) and hard copy.

Projected Unit Information – Capacity Factor (%)

Plant	Unit #	Unit Type	Fuel Type	Actual	Projected									
				2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
SGS	1	ST	BIT	76.33	83.7	83.6	80.1	80.0	81.9	82.5	86.8	85.9	87.3	88.2
SGS	2	ST	BIT	73.27	84.1	79.6	84.3	82.6	84.1	84.6	86.7	87.6	89.0	91.5
CR	3	ST	NUC	0	94.1	86.1	94.0	85.9	94.0	85.6	94.0	85.5	94.0	85.6
MGS	1	CC	NG	58.98	61.4	64.9	69.6	48.1	45.2	48.0	56.2	56.7	57.1	51.1
MGS	2	CC	NG	53.51	64.4	64.1	68.1	49.9	45.0	49.5	55.6	56.4	62.3	64.0
MGS PW CT	4	CT	NG	14.15	12.0	19.2	12.1	7.5	11.3	9.5	10.7	10.2	13.1	16.3
MGS PW CT	5	CT	NG	12.12	12.5	18.1	8.3	5.0	8.9	7.7	8.1	8.9	11.1	15.2
MGS PW CT	6	CT	NG	12.33	11.0	16.7	6.9	4.3	7.0	6.0	7.3	6.8	9.8	14.2
MGS PW CT	7	CT	NG	13.45	10.6	11.3	6.2	3.4	5.6	5.2	7.1	6.9	9.5	13.3
MGS PW CT	8	CT	NG	15.27	13.0	12.9	4.7	3.2	5.8	4.4	6.3	6.0	8.5	12.1

Note: Crystal River 3 does not reflect current extended outage.

26. Please complete the table below, providing a list of all of the Company's steam units or combustion turbines that are candidates for repowering. As part of this response, please provide the unit's fuel and unit type, summer capacity rating, in-service date, and what potential conversion/repowering would be most applicable. Also include a description of any major obstacles that could affect repowering efforts at any of these sites, such as unit age, land availability, or other requirements.

Seminole's steam generating units are not capable of repowering.

During the design stage of MGS PW facility, consideration was given for the potential expansion to a combined cycle configuration. At this particular time a detailed evaluation has not been performed to determine if there are any constraints.

Plant Name	Fuel & Unit Type	Summer Capacity (MW)	In-Service Date	Potential Conversion Type
N/A				

27. Please complete the table below, in electronic (Excel) and hard copy, regarding the Company's generation fleet and the typical use of each unit. Please identify capacity type as either Baseload, Intermediate, or Peaking, and group units by their capacity type. Please use the abbreviations for fuel and generation facilities from the FRCC Load and Resource Plan for the table below. (For example, a combustion turbine that is not part of a combined cycle unit is identified with generator code "GT.") Please complete the tables below and provide an electronic copy in Excel (.xls file format) and hard copy.

Existing Facilities as of January 1, 2011

Plant	Unit #	Unit Type	Fuel Type	Typical Capacity Factor	Capacity Type	Summer Capacity
				(%)		(MW)
SGS	1	ST	BIT		Baseload	647
SGS	2	ST	BIT		Baseload	663
CR	3	ST	NUC		Baseload	13
				Sub-Total	**Baseload**	1323
MGS	1	CT	NG		Intermediate	158
MGS	2	CT	NG		Intermediate	158
MGS	3	CA	NG		Intermediate	168
				Sub-Total	**Intermediate**	484
MGS PW CT	4	GT	NG		Peaking	54
MGS PW CT	5	GT	NG		Peaking	54
MGS PW CT	6	GT	NG		Peaking	54
MGS PW CT	7	GT	NG		Peaking	54
MGS PW CT	8	GT	NG		Peaking	54
				Sub-Total	**Peaking**	270
					Total	2077

Planned Facilities during 2011 to 2020

Plant	Unit #	Unit Type	Fuel Type	Typical Capacity Factor	Capacity Type	Summer Capacity
				(%)		(MW)
				Sub-Total	**Baseload**	
Unnamed	1	CC	NG		Intermediate	196
Unnamed	2	CC	NG		Intermediate	196
				Sub-Total	**Intermediate**	392
Unnamed	1	CT	NG		Peaking	158
Unnamed	2	CT	NG		Peaking	158
Unnamed	3	CT	NG		Peaking	158
Unnamed	4	CT	NG		Peaking	158
Unnamed	5	CT	NG		Peaking	158
Unnamed	6	CT	NG		Peaking	158
				Sub-Total	**Peaking**	948
					Total	1340

28. Please complete the table below regarding the system's installed capacity, categorized by capacity type, for the period 2001 through 2020. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Year		Baseload Capacity*	Intermediate Capacity*	Peaking Capacity*	Total Installed Capacity*
Actual	2001	1,345	572	0	1,917
	2002	1,345	572	0	1,917
	2003	1,345	572	0	1,917
	2004	1,345	572	0	1,917
	2005	1,345	541	0	1,886
	2006	1,345	533	280	2,158
	2007	1,345	567	280	2,192
	2008	1,345	567	280	2,192
	2009	1,341	540	310	2,191
	2010	1,339	516	310	2,165
Projected	2011	1,341	516	310	2,167
	2012	1,343	538	310	2,191
	2013	1,343	538	310	2,191
	2014	1,343	538	310	2,191
	2015	1,343	538	310	2,191
	2016	1,343	538	310	2,191
	2017	1,343	538	310	2,191
	2018	1,343	538	490	2,371
	2019	1,343	538	850	2,731
	2020	1,343	992	1,390	3,725

***Winter Ratings**

29. Please provide the system average heat rate for the generation fleet for each year for the period 2001 through 2020. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Year		System Average Heat Rate (BTU/kWh)
Actual	2001	9,867
	2002	9,418
	2003	9,519
	2004	9,560
	2005	9,476
	2006	9,513
	2007	9,986
	2008	9,676
	2009	9,519
	2010	9,465
Projected	2011	9,384
	2012	9,377
	2013	9,326
	2014	9,509
	2015	9,536
	2016	9,493
	2017	9,439
	2018	9,421
	2019	9,407
	2020	9,416

30. Please provide the average cost of a residential customer bill, based upon a monthly usage of 1200 kilowatt-hours, in nominal and real dollars for the period 2001 through 2020. Please use the Consumer Price Index to calculate real residential bill values. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Not applicable - Seminole does not serve any retail load and, as a result, cannot provide the average cost of a residential customer bill.

Year		Residential Bill ($/1200-kWh)		CPI
		Real	Nominal	
Actual	2001			
	2002			
	2003			
	2004			
	2005			
	2006			
	2007			
	2008			
	2009			
	2010			
Projected	2011			
	2012			
	2013			
	2014			
	2015			
	2016			
	2017			
	2018			
	2019			
	2020			

POWER PURCHASES / SALES

31. Please identify each of the Company's existing and planned power purchase contracts, including firm capacity imports reflected in Schedule 7 of the Company's Ten-Year Site Plan. Provide the seller, capacity, associated energy, and term of each purchase, and provide unit information if a unit power purchase. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Existing Purchased Power Agreements as of January 1, 2011

Seller	Contract Term		Contract Capacity (MW)		Annual Generation	Capacity Factor	Primary Fuel	Description
	Begins	Ends	Summer	Winter	(MWh)	(%)	(if any)	
Progress Energy Florida*	1/1/1999	12/31/2013	150	150	270,340.9	20.6	NG	
Progress Energy Florida*	6/1/2006	12/31/2013	150	150	130,694.4	9.9	NG	
Progress Energy Florida*	12/1/2006	12/31/2013	150	150	402,105.8	30.6	NG	
Progress Energy Florida*	2/1/1984	12/31/2013	487	31	2,195.4	0.001	NG	
Progress Energy Florida*	1/1/2010	7/30/2020	150	150	612,557.0	5.1	NG	
City of Gainesville*	2/10/1975	12/31/2012	25	25	81,734.8	4.5	Coal	
GenOn Florida, LP	12/1/2008	5/31/2014	459	546	138,001.8	2.9	NG/DFO	Osceola
Oleander Power Project, LP	12/1/2002	5/31/2021	459	546	16,672.3	0.3	NG/DFO	Oleander
Calpine Construction Finance Company, LP	6/1/2009	5/31/2014	340	360	1,423,801.6	45.1	NG	Osprey
Hardee Power Partners, Limited	1/1/1993	12/31/2012	290	356	0.0	0.0	NG/DFO	Hardee
Lee County	12/1/1999	12/31/2028	50	55	404,085.0	83.9	MSW	LCRR
Hillsborough County	3/1/2010	2/28/2025	38	38	319,580.0	96.0	MSW	HC WTE
Telogia Power LLC	7/1/2009	11/30/2023	13	13	93,204.0	81.8	WDS	Telogia
Landfill Energy Systems	1/1/2008	3/31/2018	6	6	42,050.0	80.0	LFG	Seminole
Landfill Energy Systems	4/1/2008	3/31/2018	9	9	67,280.0	85.3	LFG	Brevard
Timberline Energy LLC	2/1/2008	3/31/2020	2	2	13,454.6	96.0	LFG	Hernando

*** System Purchased Power Agreements**

Planned Purchased Power Agreements for 2011 through 2020

Seller	Contract Term		Contract Capacity (MW)		Annual Generation**	Capacity Factor**	Primary Fuel	Description
	Begins	Ends	Summer	Winter	(MWh)	(%)	(if any)	
Progress Energy Florida*	1/1/2014	12/31/2020	150	150	254,209.3	19.3	NG	
Progress Energy Florida*	1/1/2012	12/31/2013	150	150	667,913.3	50.8	Coal	
Progress Energy Florida*	1/1/2014	5/31/2016	250	250	996,247.1	45.5	Coal	
Progress Energy Florida*	1/1/2014	12/31/2020		600	265.9	0.01	NG	
Progress Energy Florida*	1/1/2014	5/31/2016	150	150	209,333.0	15.9	NG	
Progress Energy Florida*	6/1/2016	12/31/2024	500	500	490,013.2	22.4	NG	
Calpine Construction Finance Company, LP	6/1/2016	5/31/2019	245	250	557,763.0	25.5	NG	Osprey
Hardee Power Partners, Limited	1/1/2013	12/31/2027	360	445	509,903.0	13.1	NG/DFO	Hardee
Florida Power and Light Company*	6/1/2014	5/31/2021	200	200	107,114.3	6.1	NG	
Wheelabrator McKay Bay Inc	8/1/2011	7/31/2026	20	20	69,780.0	95.0	MSW	McKay Bay
Southeast Renewable Fuels, LLC	1/1/2013	11/30/2031	25	25	191,550.0	87.5	AB	Hendry County

*** System Purchased Power Agreements**

**** 2011 projected data or first full year of availability, as applicable**

32. Please identify each of the Company's existing and planned power sales, including firm capacity exports reflected in Schedule 7 of the Company's Ten-Year Site Plan. Provide the purchaser, capacity, associated energy, and term of each purchase, and provide unit information if a unit power sale. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Existing Power Sales as of January 1, 2011

Purchaser	Contract Term		Contract Capacity (MW)		Annual Generation	Capacity Factor	Primary Fuel	Description
	Begins	Ends	Summer	Winter	(MWh)	(%)	(if any)	
City of Winter Park	Jan-11	Dec-13	60	60	318,047	55.9	N/A	Load following, partial requirements sale to the City. Equivalent to Seminole native load.

Planned Power Sales for 2011 through 2020

Purchaser	Contract Term		Contract Capacity (MW)		Annual Generation	Capacity Factor	Primary Fuel (if any)	Description
	Begins	Ends	Summer	Winter	(MWh)	(%)		

33. Please discuss and identify the impacts on the Company's capacity needs of all known firm power purchases and sales over the planning horizon. As part of this discussion, please include whether options to extend purchases or sales exist, and the potential effects of expiration of these purchase or sales.

Power purchases and sales are in line with the Company's capacity needs (see Question 31).

Due to recent declines in the forecasted demand of our member systems, Seminole is projecting excess capacity reserves through 2014. This excess coincides with the sale to the City of Winter Park. As no unilateral option exists for Seminole to extend the term of the sales agreement with the City, the current scheduled expiration of the agreement will not have any effect on Seminole's future capacity needs.

Seminole will continue to review its options for filling projected capacity needs in 2014 and beyond as it has in the past, with a careful review of all existing wholesale market and self-build alternatives. Seminole does not have the unilateral ability to extend the term of any of its purchase power agreements.

ENVIRONMENTAL ISSUES

34. Please discuss the impact of environmental restrictions, relating to air or water quality or emissions, on the Company's system during the 2010 period, such as unit curtailments. As part of your discussion, please include the potential for environmental restrictions to impact unit dispatch or retirement during the 2011 through 2020 period.

Seminole Electric Cooperative Inc. experienced system economic dispatch constraints in the first half of 2010 due to restrictions imposed in our Title V Air Operating Permit's annual (rolling 12 month) operating hours for Midulla Generating Station (MGS) Peaking Units (Units 4 through 8 Pratt & Whitney CTs). Because of this restriction Seminole was forced to dispatch larger and less efficient F class machines ahead of the Pratt & Whitney CTs. This was due to heavy dependence on the units in 2009 to cover both Seminole Generating Station (SGS) unplanned outages throughout the year of 2009 and the continued unavailability of the MGS Combined Cycle facility during the first 4 months of 2009.

In the 2011 through 2020 period there is a potential for environmental restrictions to impact unit dispatch or retirement due to the number of EPA regulations that have recently been proposed: Utility Maximum Achievable Control Technology(MACT), New Source Performance Standards(NSPS) for Greenhouse Gas, Reciprocating Internal Combustion Engine(RICE) National Emission Standards for Hazardous Air Pollutants(NESHAP), Clean Air Transport Rule, recent or pending National Ambient Air Quality Standards for NO2, SO2, ozone and PM2.5, Regional Haze Program, Steam Electric Effluent Guidelines, Coal Combustion Residuals, Numeric Nutrient Criteria, Total Maximum Daily Load(TMDL), and 316(b). It is too early to define, however, the potential magnitude of such an impact.

35. Please provide the rate of emissions, on an annual and per megawatt-hour basis, of regulated materials and carbon dioxide for the generation fleet each year for the period 2001 through 2020. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Year		SOX		NOX		Mercury		Particulates		CO2e	
		lb/MWh	Tons	lb/MWh	Tons	lb/MWh	Tons	lb/MWh	Tons	lb/MWh	Tons
Actual	2001	6.553	29,833	5.369	24,442.27	0	0.000	0.111	506	2,092.23	9,524,699
	2002	4.214	24,097	3.930	22,473.92	0	0.000	0.137	783	1,835.26	10,495,250
	2003	4.598	27,370	3.668	21,832.46	0	0.000	0.165	980	1,863.77	11,093,180
	2004	4.773	26,710	3.611	20,204.50	0	0.000	0.116	651	1,844.55	10,321,579
	2005	5.335	31,452	3.977	23,448.40	0	0.000	0.125	735	1,866.38	11,003,371
	2006	3.886	22,781	3.819	22,385.35	0	0.000	0.175	1,028	1,836.16	10,763,661
	2007	3.959	20,339	4.075	20,933.59	0	0.000	0.215	1,105	2,042.86	10,493,976
	2008	3.640	19,351	3.136	16,673.67	0	0.000	0.150	797	1,884.37	10,017,445
	2009	4.076	20,590	0.903	4,562.21	7.9183E-06	0.040	0.148	745	1,747.08	8,825,602
	2010	3.161	16,975	0.510	2,739.00	8.235E-06	0.044	0.124	665	1,947.83	10,459,377
Projected	2011	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642
	2012	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642
	2013	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642
	2014	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642
	2015	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642
	2016	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642
	2017	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642
	2018	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642
	2019	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642
	2020	3.280	17,614	1.004	5,391.59	7.4491E-06	0.040	0.155	835	1,951.79	10,480,642

FUEL

36. Please provide, on a system-wide basis, the historic average fuel price (in nominal $/MMBTU) for each fuel type for the period 2001 through 2010. Also, provide the forecasted annual average fuel price (in nominal $/MMBTU) for each fuel type for the period 2011 through 2020. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Nominal Fuel ($/MMBTU)		Uranium	Coal	Natural Gas	Residual Oil	Distillate Oil
Actual	2001	0.53	1.77	N/A	N/A	6.11
	2002	0.45	1.88	4.19	N/A	6.29
	2003	0.46	1.72	6.33	N/A	6.40
	2004	0.54	1.98	7.22	N/A	8.15
	2005	0.51	2.02	9.92	N/A	15.05
	2006	0.57	2.11	8.39	N/A	13.70
	2007	0.44	2.18	10.06	N/A	16.68
	2008	0.41	2.26	10.29	N/A	19.80
	2009	0.50	3.62	5.01	N/A	13.94
	2010	0.00	3.40	5.39	N/A	16.67
Projected	2011	0.53	3.15	5.28	N/A	19.33
	2012	0.54	3.23	5.70	N/A	19.56
	2013	0.64	3.55	5.90	N/A	19.36
	2014	0.64	3.53	5.73	N/A	19.18
	2015	0.67	3.60	6.27	N/A	19.18
	2016	0.67	3.68	6.76	N/A	19.22
	2017	0.73	4.04	7.26	N/A	19.28
	2018	0.74	4.17	7.79	N/A	19.36
	2019	0.81	4.30	8.21	N/A	19.47
	2020	0.81	4.44	8.64	N/A	19.48

37. Please provide, on a system-wide basis, the historic annual fuel usage (in GWh) for each fuel type for the period 2001 through 2010. Also, provide the forecasted annual fuel usage (in GWh) for each fuel type for the period 2011 through 2020. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Fuel Usage (GWh)		Uranium *	Coal	Natural Gas	Residual Oil	Distillate Oil
Actual	2001	111	8995	0	0	0
	2002	124	8941	2371	0	0
	2003	113	9568	2227	0	0
	2004	125	9015	2051	0	0
	2005	109	9784	3644	0	127
	2006	119	9631	6415	478	389
	2007	119	10241	5477	40	1446
	2008	273	10555	5369	629	95
	2009	188	7552	8916	28	301
	2010	158	9142	6981	43	267
Projected	2011	170	9608	6298	20	101
	2012	275	9553	6150	16	89
	2013	297	9575	6609	12	89
	2014	410	9658	3933	2	62
	2015	417	9952	3980	2	70
	2016	281	9746	4792	1	66
	2017	144	9777	5817	0	75
	2018	131	9782	6399	0	75
	2019	144	9939	6743	0	88
	2020	131	10161	7178	0	98

* In 2010, 101 GWh of the total Uranium fuel usage represents alternative energy provided to Seminole during CR3 unscheduled outage for the year.

38. Please discuss how the Company compares its fuel price forecasts to recognized, authoritative independent forecasts.

Seminole utilizes recognized, authoritative independent third party commodity price forecasts and/or NYMEX natural gas and oil commodity prices as a starting point for projecting the delivered price of fuel to the generating resources. Seminole also utilizes authoritative independent third party forecasts for escalation or economic market indices for adjusting future prices fuel related service cost, such as transportation or contractual fuel price adjustments. Forecasts are then adjusted to include known and measurable conditions from Seminole's long-term fuel supply, storage, and transportation agreements.

39. For each fuel type (coal, natural gas, nuclear fuel, etc.), please discuss in detail the expected industry trends and factors for the period 2011 through 2020. As part of this discussion, please include how these factors and trends will affect the Company.

Please see Section 5.2 of Seminole's Ten-Year Site Plan.

40. What steps has the Company taken to ensure gas supply availability and transport over the 2011 through 2020 planning period?

Seminole maintains a balanced portfolio of long-term (1 to 5 years) natural gas supply purchase arrangements for a portion of our projected baseload requirements and relies on shorter term purchase transactions to obtain the remaining requirements. Since natural gas is an incremental fuel, Seminole's strategy provides flexibility to obtain its incremental energy requirements either from economic purchased power or natural gas at prevailing market conditions.

For natural gas transportation, Seminole holds various contracts for firm and interruptible transportation capacity on both Florida Gas Transmission (FGT) and Gulfstream pipelines. Seminole currently has agreements for 102,000 Dth/day of firm natural gas transportation capacity. Because of projected load increases and potential increase in gas utilization, Seminole has also executed a Firm Transportation Service Agreement with FGT, for an additional 30,000 Dth/day of firm natural gas transportation, starting on April 1, 2012.

Seminole also holds interruptible transportation service contracts with both pipelines to assist Seminole in meeting the transportation requirements for peaking operations. Additionally, Seminole routinely purchases delivered natural gas in the Florida market whereby the supplier provides the transportation. Seminole maintains a diverse portfolio of standard natural gas contracts, GISB/NAESB, with over 50 suppliers and other Florida utilities that provide natural gas commodity and/or may have excess transportation capacity.

41. Regarding existing and planned natural gas pipeline expansion projects, including new pipelines, affecting the Company for the period 2011 through 2020, please identify each project and discuss it in detail.

Seminole is aware of Transco's Mobile Bay South II expansion that is projected in-service in May 2011. This pipeline expansion will bring approximately 0.38 Bcf/day of gas supply from Transco station 85 down to the FGT and Gulfstream pipeline receipt points in the Mobile Bay area increasing the amount of gas supply available to FGT and Gulfstream shippers.

Seminole is also aware of the Gulf LNG terminal project under construction in Pascagoula, MS. This LNG regasification plant is projected in-service during 2011 and will have base send-out capacity of 1.3 Bcf/day. This project will provide additional gas supply to FGT and Gulfstream shippers provided the U.S. market can attract LNG supplies.

Lastly, Seminole is aware of the Port Dolphin LNG Terminal planned for the Tampa Bay area which will supply natural gas through a FERC regulated pipeline servicing only the Florida gas market. Seminole is supportive of this project and has had numerous discussions with the Port Dolphin representatives. In the future Seminole may contract for gas supply and/or transportation services for this needed supply into the Florida gas market.

42. Please discuss in detail any existing or planned natural gas pipeline expansion project, including new pipelines and off-shore projects, outside the State of Florida that will affect the Company over the period 2011 through 2020.

Seminole is aware of Transco's Mobile Bay South II expansion that is projected in-service in May 2011. This pipeline expansion will bring approximately 0.38 Bcf/day of gas supply from Transco station 85 down to the FGT and Gulfstream pipeline receipt points in the Mobile Bay area increasing the amount of gas supply available to FGT and Gulfstream shippers.

Seminole is also aware of the Gulf LNG terminal project under construction in Pascagoula, MS. This LNG regasification plant is projected in-service during 2011 and will have base send-out capacity of 1.3 Bcf/day. This project will provide additional gas supply to FGT and Gulfstream shippers provided the U.S. market can attract LNG supplies.

43. Regarding unconventional natural gas production (shale gas, tight sands, etc.), please discuss in detail the expected industry factors and trends for the period 2011 through 2020. As part of this discussion, please include how these factors and trends will affect the Company.

Seminole relies on our independent price forecasters for detailed information on supply and demand fundamentals in the gas market that will impact us. In general, unconventional natural gas production in the form of shale gas is expected to keep the U.S. market amply supplied and Seminole is further evaluating any actions we might take to benefit from this shift in the gas market production.

44. Regarding liquefied natural gas (LNG) imports to the United States, please discuss in detail the expected industry factors and trends for the period 2011 through 2020. As part of this discussion, please include how these factors and trends will affect the Company.

Seminole relies on our independent price forecasters for detailed information on supply and demand fundamentals in the gas market that will impact us. In general, LNG imports to the U.S. are expected to be minimal over the period as a result of global gas market economics. Sufficient domestic natural gas production is expected

to keep gas prices too low in the U.S. relative to other global markets to attract cargoes of LNG. Seminole is planning its gas supply portfolio to be without any LNG during the period.

45. Please discuss in detail the Company's plans for the use of firm natural gas storage for the period 2011 through 2020.

Seminole has a firm natural gas storage agreement with SG Resources Mississippi LLC for capacity through 2017. The arrangement provides storage for natural gas supply replacement in the event of hurricanes. As Seminole expands its use of natural gas or builds additional natural gas-fired generating capacity, we will evaluate the future addition of long-term firm storage capacity into our portfolio.

46. Please discuss the actions taken by the Company to promote competition within and among coal transportation modes.

Seminole is a "Captive Shipper" to the CSX Transportation (CSXT) for all delivery of Seminole's solid fuel requirements to the Seminole Generating Station. Seminole does not have, nor can we develop, any direct access to water transportation or other economic alternative modes of transportation. We could supply very small quantities of fuel in an emergency through truck deliveries from other power stations in Florida which could receive our solid fuel deliveries. There are no permitted solid fuel terminals in the vicinity to receive supplies through third party transactions.

In its annual solid fuel solicitations, Seminole does include suppliers capable of delivering sold fuel (coal and/or Petcoke) through an ocean port terminal in Charleston, SC servicing the southeast U.S. with interconnection to the CSXT facilities for delivery to the plant. This terminal facility has been used when economical.

Currently, Seminole is obtaining rail transportation arrangements with the CSX railroad through a CSXT transportation contract for service to our Seminole Generating Station. This contract provides access to several supply regions such as Illinois Basin, including West Kentucky and Indiana mines, the NAPP, and includes the Charleston, SC port terminal for imports of coal and/or petroleum coke.

The national trend for rail transportation rates indicates that the railroad(s) are significantly increasing rail transportation rates. As a captive shipper in the absence of competition, Seminole in 2008 could not reach agreement with CSXT on a new transportation arrangement and took rail service under CSXT specific tariff rates for Seminole. Seminole then challenged tariff rates effective January 1, 2009 before Department of Transportation's Surface Transportation Board (STB) and requested the STB establish reasonable jurisdictional rates for our solid fuel transportation. A STB decision was not issued in the case, as the parties settled and Seminole filed a motion to dismiss the case. The parties entered into a mutually agreeable transportation contract, the terms of which are confidential

47. Regarding coal transportation by rail, please discuss the expected industry trends and factors for the period 2011 through 2020. As part of this discussion, please include how these factors and trends will affect the Company. Also include a discussion of any expected changes to terminals and port facilities that could affect coal transportation for the Company.

None, please also see answer to Question 46.

48. Regarding coal transportation by water, please discuss the expected industry trends and factors for the period 2011 through 2020. As part of this discussion, please include how these factors and trends will affect the Company. Also include a discussion of any expected changes to terminals and port facilities that could affect coal transportation for the Company.

None, please also see answer to Question 46.

49. Regarding planned changes and construction projects at coal generating units, please discuss the expected changes for coal handling, blending, unloading, and storage for the period 2011 through 2020.

During the period of 2011 through 2020, the coal unloading rotary dumper will be replaced in 2012. No other expected changes for coal handling, blending, unloading, and storage at the Seminole Generating Station are contemplated at this time.

50. For the period 2011 through 2020, please discuss in detail the Company's plans for the storage and disposal of spent nuclear fuel. As part of this discussion, please include the Company's expectation regarding Yucca Mountain, dry cask storage, and litigation involving spent nuclear fuel, and the future of the Nuclear Waste Disposal Act.

Not applicable.

51. Regarding uranium production, please discuss the expected industry trends and factors for the period 2011 through 2020. As part of this discussion, please include how these factors and trends will affect the Company.

Not applicable.

52. Regarding the transportation of heavy fuel oil and distillate fuel oil, please discuss the expected industry trends and factors for the period 2011 through 2020. As part of this discussion, please include how these factors and trends will affect the Company.

Seminole's use of fuel oil for its own generating resources is limited to backup fuel in the event natural gas deliveries into Florida are curtailed. During previous major storm periods, fuel oil transportation was diverted away from utility generating facilities to meet the needs of Florida's residential and commercial transportation sector. It is anticipated that this situation will continue into the future when storms affect the southeast region. Therefore, utilities will be required to carry more fuel oil storage capability to meet any natural gas or fuel oil transportation interruption. Because of this, Seminole increased its storage capacity at its Midulla Generating Station in 2007.

53. Please discuss the effect of changes in fossil fuel prices on the competitiveness of renewable technologies.

While some renewable technologies (e.g., landfill gas, municipal solid waste, some biomass, etc.) are relatively competitive already to today's cost of fossil fuel used for electric generation, most are not. Higher fossil fuel prices should improve the competitiveness of the other renewable technologies that cannot compete on a head-to-head basis in the absence of subsidy or regulatory mandate (e.g., solar photovoltaic). Likewise, lower fossil fuel prices would likely hurt the competitiveness of renewable technologies.

54. Please discuss the effect of renewable resource development (for electric generation and non-generation technologies) on fossil fuel prices.

The state of Florida does not have a significant amount of renewable generation to reduce its reliance on fossil fuels. Fossil fuel prices are affected by greater outside forces then renewable generation.

TRANSMISSION

55. Please provide a list of all proposed transmission lines in the planning period that require certification under the Transmission Line Siting Act. Please also include those that have been approved, but are not yet in-service.

Seminole Electric Cooperative, Inc. does not have any proposed transmission lines during the planning period that require certification under the Transmission Line Siting Act.

Transmission Line	Line Length (Miles)	Nominal Voltage (kV)	Date Need Approved	Date TLSA Certified	In-Service Date

History and Forecast of Summer Peak Demand
High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Year	Total	Wholesale	Retail	Interruptible	Residential Load Management	Residential Conservation	C / I Load Management	C / I Conservation	Net Firm Demand
HISTORY:									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
2009									
2010									
FORECAST:									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									
2019									
2020									

INCLUDED IN TEN YEAR SITE PLAN

History and Forecast of Summer Peak Demand
Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Year	Total	Wholesale	Retail	Interruptible	Residential Load Management	Residential Conservation	C / I Load Management	C / I Conservation	Net Firm Demand
HISTORY:									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
2009									
2010									
FORECAST:									
2011									
2012									
2013									
2014									
2015									
2016									
2017									
2018									
2019									
2020									

INCLUDED IN TEN YEAR SITE PLAN

History and Forecast of Winter Peak Demand
High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Year	Total	Wholesale	Retail	Interruptible	Residential Load Management	Residential Conservation	C / I Load Management	C / I Conservation	Net Firm Demand
HISTORY:									
2000/01									
2001/02									
2002/03									
2003/04									
2004/05									
2005/06									
2006/07									
2007/08									
2008/09									
2009/10									
FORECAST:									
2010/11									
2011/12									
2012/13									
2013/14									
2014/15									
2015/16									
2016/17									
2017/18									
2018/19									
2019/20									

INCLUDED IN TEN YEAR SITE PLAN

History and Forecast of Winter Peak Demand
Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Year	Total	Wholesale	Retail	Interruptible	Residential Load Management	Residential Conservation	C / I Load Management	C / I Conservation	Net Firm Demand
HISTORY:									
2000/01									
2001/02									
2002/03									
2003/04									
2004/05									
2005/06									
2006/07									
2007/08									
2008/09									
2009/10									
FORECAST:									
2010/11									
2011/12									
2012/13									
2013/14									
2014/15									
2015/16									
2016/17									
2017/18									
2018/19									
2019/20									

INCLUDED IN TEN YEAR SITE PLAN

History and Forecast of Annual Net Energy for Load - GWH
High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Year	Total	Residential Conservation	C / I Conservation	Retail	Wholesale	Utility Use & Losses	Net Energy for Load	Load Factor (%)
HISTORY:								
2001								
2002								
2003								
2004								
2005								
2006								
2007								
2008								
2009								
2010								
FORECAST:								
2011								
2012								
2013								
2014								
2015								
2016								
2017								
2018								
2019								
2020								

INCLUDED IN TEN YEAR SITE PLAN

History and Forecast of Annual Net Energy for Load - GWH
Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Year	Total	Residential Conservation	C / I Conservation	Retail	Wholesale	Utility Use & Losses	Net Energy for Load	Load Factor (%)
HISTORY:								
2001								
2002								
2003				**INCLUDED IN TEN YEAR SITE PLAN**				
2004								
2005								
2006								
2007								
2008								
2009								
2010								
FORECAST:								
2011								
2012								
2013								
2014								
2015								
2016								
2017								
2018								
2019								
2020								

Existing Generating Unit Operating Performance

(1)	(2)	(3)		(4)		(5)		(6)	
		Planned Outage Factor (POF)		Forced Outage Factor (FOF)		Equivalent Availability Factor (EAF)		Average Net Operating Heat Rate (ANOHR)	
Plant Name	Unit No.	Historical	Projected	Historical	Projected	Historical	Projected	Historical	Projected
SGS *	1	8.93%	8.13%	11.97%	1.54%	78.56%	90.33%	10,035	9,988
SGS *	2	9.58%	7.80%	1.86%	1.80%	87.99%	90.40%	9,935	9,788
MGS *	1	11.96%	5.28%	5.60%	4.91%	76.88%	89.80%	7,829	7,560
MGS *	2	12.55%	4.74%	6.20%	4.60%	73.83%	90.67%	7,829	7,522
MGS **	CT1	1.46%	0.74%	6.25%	2.98%	86.54%	96.28%	11,389	10,430
MGS **	CT2	2.48%	0.74%	13.38%	2.99%	75.45%	96.27%	11,389	10,470
MGS **	CT3	0.28%	0.74%	8.06%	2.98%	85.39%	96.28%	11,389	10,528
MGS **	CT4	0.92%	0.74%	5.86%	2.90%	88.01%	96.36%	11,389	10,545
MGS **	CT5	0.58%	0.74%	10.00%	2.99%	85.38%	96.27%	11,389	10,493

NOTE: * Historical - average of past five years
** Historical - average of past four years
Projected - average of next ten years

SGS Seminole Generating Station
MGS Midulla Generating Station

Nominal, Delivered Residual Oil Prices
Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Residual Oil (By Sulfur Content)								
	Less Than 0.7%		Escalation	0.7 - 2.0%		Escalation	Greater Than 2.0%		Escalation
Year	$/BBL	c/MBTU	%	$/BBL	c/MBTU	%	$/BBL	c/MBTU	%
HISTORY:									
2008									
2009		**N/A**			**N/A**			**N/A**	
2010									
FORECAST:									
2011									
2012									
2013									
2014									
2015		**N/A**			**N/A**			**N/A**	
2016									
2017									
2018									
2019									
2020									

ASSUMPTIONS: heat content, ash content

Nominal, Delivered Residual Oil Prices
High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Residual Oil (By Sulfur Content)								
	Less Than 0.7%		Escalation	0.7 - 2.0%		Escalation	Greater Than 2.0%		Escalation
Year	$/BBL	c/MBTU	%	$/BBL	c/MBTU	%	$/BBL	c/MBTU	%
HISTORY:									
2008									
2009		**N/A**			**N/A**			**N/A**	
2010									
FORECAST:									
2011									
2012									
2013									
2014									
2015		**N/A**			**N/A**			**N/A**	
2016									
2017									
2018									
2019									
2020									

ASSUMPTIONS: heat content, ash content

Nominal, Delivered Residual Oil Prices
Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Residual Oil (By Sulfur Content)								
	Less Than 0.7%		Escalation	0.7 - 2.0%		Escalation	Greater Than 2.0%		Escalation
Year	$/BBL	c/MBTU	%	$/BBL	c/MBTU	%	$/BBL	c/MBTU	%
HISTORY:									
2008									
2009		**N/A**			**N/A**			**N/A**	
2010									
FORECAST:									
2011									
2012									
2013									
2014									
2015		**N/A**			**N/A**			**N/A**	
2016									
2017									
2018									
2019									
2020									

ASSUMPTIONS: heat content, ash content

Nominal, Delivered Distillate Oil and Natural Gas Prices
Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Distillate Oil			Natural Gas		
Year	$/BBL	c/MBTU	Escalation %	c/MBTU	$/MCF	Escalation %
HISTORY:						
2008	115.41	1980		1029	10.29	
2009	81.25	1394	-29.6%	501	5.01	-51.3%
2010	97.19	1667	19.6%	539	5.39	7.7%
FORECAST:						
2011	112.60	1933		528	5.28	
2012	113.92	1956	1.2%	570	5.70	8.1%
2013	112.75	1936	-1.0%	590	5.90	3.4%
2014	111.75	1918	-0.9%	573	5.73	-2.8%
2015	111.75	1918	0.0%	627	6.27	9.4%
2016	111.96	1922	0.2%	676	6.76	7.8%
2017	112.33	1928	0.3%	726	7.26	7.5%
2018	112.78	1936	0.4%	779	7.79	7.2%
2019	113.41	1947	0.6%	821	8.21	5.4%
2020	113.50	1948	0.1%	864	8.64	5.3%

NOTE: A non-firm delivery adder is included in the price of natural gas.

ASSUMPTIONS FOR DISTILLATE OIL: heat content, ash content, sulfur content

Nominal, Delivered Distillate Oil and Natural Gas Prices
High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Distillate Oil			Natural Gas		
Year	$/BBL	c/MBTU	Escalation %	c/MBTU	$/MCF	Escalation %
HISTORY:						
2008						
2009	**N/A**				**N/A**	
2010						
FORECAST:						
2011						
2012						
2013						
2014						
2015	**N/A**				**N/A**	
2016						
2017						
2018						
2019						
2020						

ASSUMPTIONS FOR DISTILLATE OIL: heat content, ash content, sulfur content

Nominal, Delivered Distillate Oil and Natural Gas Prices
Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Distillate Oil			Natural Gas		
			Escalation			Escalation
Year	$/BBL	c/MBTU	%	c/MBTU	$/MCF	%
HISTORY:						
2008						
2009	**N/A**				**N/A**	
2010						
FORECAST:						
2011						
2012						
2013						
2014						
2015	**N/A**				**N/A**	
2016						
2017						
2018						
2019						
2020						

ASSUMPTIONS FOR DISTILLATE OIL: heat content, ash content, sulfur content

Nominal, Delivered Coal Prices
Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	Low Sulfur Coal (< 1.0%)				Medium Sulfur Coal (1.0 - 2.0%)				High Sulfur Coal (> 2.0%)			
Year	$/Ton	c/MBTU	Escalation %	% Spot Purchase	$/Ton	c/MBTU	Escalation %	% Spot Purchase	$/Ton	c/MBTU	Escalation %	% Spot Purchase
HISTORY:												
2008									55.01	225.94		25.7%
2009		**N/A**				**N/A**			88.65	362.40	60.4%	17.9%
2010									85.74	339.80	-6.2%	27.0%
FORECAST:												
2011									76.60	315.28		25%
2012									78.49	323.05	2.5%	25%
2013									86.31	355.24	10.0%	25%
2014									85.77	353.00	-0.6%	25%
2015		**N/A**				**N/A**			87.51	360.20	2.0%	25%
2016									89.39	367.93	2.1%	25%
2017									101.54	403.57	9.7%	25% *
2018									104.96	417.17	3.4%	25% *
2019									108.26	430.28	3.1%	25% *
2020									111.78	444.27	3.3%	25% *

*NOTE: It is not known, at this time, what percentage of spot purchases will be made for this facility after 2012 due to various options under existing long term coal supply agreements. However based on the 2011 Ten Year Site Plan, Seminole Electric Cooperative Inc estimates spot market purchases as shown above.

ASSUMPTIONS: type of coal, heat content, ash content

Nominal, Delivered Coal Prices
High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	Low Sulfur Coal (< 1.0%)				Medium Sulfur Coal (1.0 - 2.0%)				High Sulfur Coal (> 2.0%)			
Year	$/Ton	c/MBTU	Escalation %	% Spot Purchase	$/Ton	c/MBTU	Escalation %	% Spot Purchase	$/Ton	c/MBTU	Escalation %	% Spot Purchase
HISTORY:												
2008												
2009		**N/A**				**N/A**				**N/A**		
2010												
FORECAST:												
2011												
2012												
2013												
2014												
2015		**N/A**				**N/A**				**N/A**		
2016												
2017												
2018												
2019												
2020												

ASSUMPTIONS: type of coal, heat content, ash content

Nominal, Delivered Coal Prices
Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	Low Sulfur Coal (< 1.0%)				Medium Sulfur Coal (1.0 - 2.0%)				High Sulfur Coal (> 2.0%)			
Year	$/Ton	c/MBTU	Escalation %	% Spot Purchase	$/Ton	c/MBTU	Escalation %	% Spot Purchase	$/Ton	c/MBTU	Escalation %	% Spot Purchase
HISTORY:												
2008												
2009		**N/A**				**N/A**				**N/A**		
2010												
FORECAST:												
2011												
2012												
2013												
2014												
2015		**N/A**				**N/A**				**N/A**		
2016												
2017												
2018												
2019												
2020												

ASSUMPTIONS: type of coal, heat content, ash content

Nominal, Delivered Nuclear Fuel and Firm Purchases

(1)	(2)	(3)	(4)	(5)
	Nuclear		Firm Purchases	
		Escalation		Escalation
Year	c/MBTU	%	$/MWh	%
HISTORY:				
2008	41.00		94.32	
2009	49.90	21.7%	79.15	-16.1%
2010	N/A*		90.93	14.9%
FORECAST:				
2011	52.88		89.82	
2012	53.65	1.5%	105.45	17.4%
2013	64.23	19.7%	101.35	-3.9%
2014	64.33	0.1%	115.09	13.6%
2015	66.83	3.9%	114.81	-0.2%
2016	67.21	0.6%	112.35	-2.1%
2017	73.46	9.3%	116.53	3.7%
2018	74.13	0.9%	119.41	2.5%
2019	80.67	8.8%	129.53	8.5%
2020	81.25	0.7%	130.34	0.6%

*NOTE: Alternative energy provided to Seminole Electric during Progress Energy Crystal River 3 unscheduled outage for 2010.

Financial Assumptions
Base Case

AFUDC RATE	5.1	%
CAPITALIZATION RATIOS:		
DEBT	N/A	%
PREFERRED	N/A	%
EQUITY	N/A	%
RATE OF RETURN		
DEBT	N/A	%
PREFERRED	N/A	%
EQUITY	N/A	%
INCOME TAX RATE:		
STATE	N/A	%
FEDERAL	N/A	%
EFFECTIVE	N/A	%
OTHER TAX RATE:	N/A	%
DISCOUNT RATE:	5.6	%
TAX DEPRECIATION RATE:	3.6	%

Financial Escalation Assumptions

(1)	(2)	(3)	(4)	(5)
Year	General Inflation %	Plant Construction Cost %	Fixed O&M Cost %	Variable O&M Cost %
2011	0.6%	0.6%	0.6%	0.6%
2012	1.7%	1.7%	1.7%	1.7%
2013	1.9%	1.9%	1.9%	1.9%
2014	1.5%	1.5%	1.5%	1.5%
2015	1.5%	1.5%	1.5%	1.5%
2016	1.5%	1.5%	1.5%	1.5%
2017	1.6%	1.6%	1.6%	1.6%
2018	1.6%	1.6%	1.6%	1.6%
2019	1.6%	1.6%	1.6%	1.6%
2020	1.6%	1.6%	1.6%	1.6%

Loss of Load Probability, Reserve Margin, and Expected Unserved Energy
Base Case Load Forecast

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Annual Isolated			Annual Assisted		
Year	Loss of Load Probability (Days/Yr)	Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)	Loss of Load Probability (Days/Yr)	Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)
2011	N/A	18.7%		N/A	18.7%	551
2012	N/A	17.0%		N/A	17.0%	0
2013	N/A	15.5%		N/A	15.5%	0
2014	N/A	15.0%		N/A	15.0%	0
2015	N/A	15.0%		N/A	15.0%	1257
2016	N/A	15.0%		N/A	15.0%	0
2017	N/A	15.0%		N/A	15.0%	0
2018	N/A	15.0%		N/A	15.0%	5
2019	N/A	15.0%		N/A	15.0%	221
2020	N/A	15.0%		N/A	15.0%	239