

ENERGY CONSERVATION COMMITTEE

CLIFFORD J. HURGIN MUNICIPAL CENTER
1 SCHOOL STREET, BETHEL, CT. 06801

MEETING ROOM "B"

Thursday, December 1, 2011

7:00 P.M.

Regular Meeting

MINUTES

RECEIVED

2011 DEC -2 A 11: 25

TOWN OF BETHEL
TOWN CLERK

PRESENT: Chairman, Bill Cratty, Members: David Dunn, Gary Pedone, Randi Oisher, Hank Karl.

ABSENT: Nick Ellis, Mark Anderson, and Fred Zalzman.

CALL TO ORDER: Chairman Bill Cratty called the meeting to order at 7:04 P.M. followed by the Pledge of Allegiance.

PUBLIC COMMENT: None

APPROVAL OF MINUTES: Hank Karl made a motion to approve the meeting minutes of 07/12/2011. Motion was seconded by Gary Pedone. Vote, all in favor, motion approved.

2012 MEETING SCHEDULE: David Dunn made a motion to approve the first Thursday of every month at 7:00 PM as the meeting schedule of 2012. Location will be determined. Motion was seconded by Randi Oisher. Vote, all in favor, motion unanimously approved.

COURSE OF ACTION RE: ENERGY LEGISLATION:

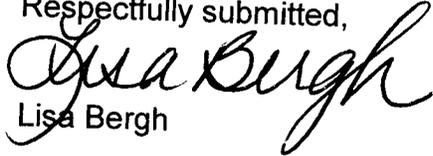
Based on the new legislation, Chairman Cratty created 2 spreadsheets, both for the solar project at the Transfer Station with 2 separate scenarios (see attached). Commercial solar projects are addressed in section 107 of the new legislation; it requires the utilities to put together their programs by February. The solar project at the town Transfer Station was discussed. Chairman Cratty suggested that we engage Energy New England to take and put the bid together and work through the process. The cost of such would be worked into the project if we were awarded the bid; if the bid is turned down then we would ask that the town compensate Energy New England. This is something that will require Board of Selectmen approval. The new Legislation also allows for Purchase Power Agreements through which the entity would build own and operate allowing for the company to take advantage of tax credits where Municipalities cannot take advantage of this. It also allows for performance contracting. In this case the town owns the improvements, and the contractor is liable for performance. Chairman Cratty explained different options. Chairman Cratty to contact Energy New England to schedule a presentation.

In the meantime, Hank Karl suggested the committee gather a list of smaller items that can impact energy conservation immediately. He also suggested that the committee move forward with both the solar project and the fuel cell project at the same time.

ADJOURN: Hank Karl made a motion to adjourn; motion was seconded by Bill Cratty. Vote, all in favor, motion unanimously approved.

Meeting adjourned 7:40 P.M.

Respectfully submitted,


Lisa Bergh

Project Name: Bethel Landfill Solar Project

Date: 11/28/2011

Hourly: Estimated average net kWh AC for each hour in a typical day for each month in a typical year

Project Specifics: 1.0 MW Fixed Angle

Hourly: PVwatts estimated average net kW AC for each hour in a typical day for each month in a typical year

Hour Ending	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	0	-	-	-	-	-	-
7	-	-	-	0	6	15	5	0	0	-	-	-
8	0	6	2	69	121	151	121	65	18	0	-	-
9	34	132	104	223	269	295	249	208	172	84	5	0
10	157	246	275	337	379	438	365	333	293	218	97	37
11	246	350	367	459	458	515	468	421	373	313	197	142
12	291	381	428	514	554	575	516	504	461	385	260	211
13	290	383	499	544	573	576	524	539	461	407	292	252
14	243	361	510	533	559	546	532	507	454	374	255	241
15	164	273	446	509	522	502	518	476	396	325	202	184
16	37	149	370	433	428	427	493	406	322	234	130	100
17	0	13	250	295	347	313	356	313	194	103	13	4
18	-	0	91	157	203	215	242	190	86	4	0	-
19	-	-	1	18	75	99	109	44	1	-	-	-
20	-	-	-	0	0	3	3	0	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-
Average per Day	1,462	2,294	3,344	4,089	4,494	4,669	4,486	4,006	3,232	2,448	1,451	1,172
Days per Month	31	28	31	30	31	30	31	31	3,232	2,448	1,451	1,172
Average per Month	45,308	64,229	103,651	122,659	139,320	140,068	139,072	124,182	96,953	75,890	43,532	36,333
Performance Hours												
kWh Output	0	13	91	1,769	1,855	1,788	1,885	1,701	1,366	1,036	599	-
											Annual Total	1,131,198

Project Name: Bethel Landfill Solar Project

Date: 11/28/2011

Hourly: Estimated average net kWh AC for each hour in a typical day for each month in a typical year

Project Specifics: 1.0 MW with Single Axis Tracker System

Hourly: PVwatts estimated average net kW AC for each hour in a typical day for each month in a typical year

Hour Ending	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	0	-	-	-	-	-	-
7	-	-	2	86	7	18	6	0	0	-	-	-
8	0	8	131	278	151	188	151	82	23	1	-	-
9	43	165	344	421	337	369	311	260	215	105	7	0
10	196	307	459	574	474	547	457	417	366	273	122	46
11	307	437	535	643	573	643	584	526	466	391	246	177
12	363	476	624	680	693	719	646	630	576	481	325	264
13	363	479	637	666	698	720	655	673	576	509	366	315
14	303	452	558	636	652	682	680	633	568	468	319	302
15	205	341	462	541	535	594	644	596	495	406	252	230
16	47	186	313	369	434	534	579	506	403	293	162	125
17	0	16	113	196	254	381	445	381	242	129	16	5
18	-	0	1	22	94	269	302	238	108	5	0	-
19	-	-	-	0	0	124	137	55	1	-	-	-
20	-	-	-	-	-	3	3	0	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-
Average per Day	1,827	2,867	4,179	5,111	5,618	5,836	5,608	5,007	-	-	-	-
Days per Month	31	28	31	30	31	30	31	31	4,040	3,060	1,814	1,465
Average per Month	56,636	80,287	129,564	153,324	174,150	175,085	173,841	155,227	121,191	94,863	54,415	45,416
Performance Hours	0	16	114	2,211	2,319	2,236	2,357	2,126	1,708	1,295	749	-
kWh Output	0	16	114	2,211	2,319	2,236	2,357	2,126	1,708	1,295	749	-
										Annual Total		1,413,998