

EXHIBIT D

Deuel Harvest North Wind Farm

Deuel Harvest Wind Energy LLC

Pre-Construction Shadow Flicker Study (Updated Study 2)

Date: April 2, 2020

Docket: EL-18-053

Receptor	Status	Easting (UTM 14)	Northing (UTM 14)	Ground Elevation (m)	Expected Annual Shadow Flicker Hours
3	Non-Participating	683223	4963726	567	0:00
4	Non-Participating	699672	4962706	491	0:00
5	Non-Participating	696155	4962600	513	0:04
6	Non-Participating	695975	4961104	503	0:00
191	Non-Participating	683121	4963032	560	0:00
192	Non-Participating	683367	4963367	561	0:00
193	Non-Participating	683472	4962461	558	0:00
194	Non-Participating	690894	4963517	527	0:00
195	Non-Participating	693658	4960634	516	0:00
196	Non-Participating	694600	4961061	507	0:00
197	Non-Participating	694375	4961365	507	0:00
198	Non-Participating	694692	4962542	505	0:00
199	Non-Participating	698259	4963973	491	0:18
200	Non-Participating	696362	4962729	509	3:13
201	Non-Participating	697509	4962861	505	1:36
202	Non-Participating	695439	4962490	511	0:00
203	Non-Participating	695645	4962537	510	0:00
204	Non-Participating	696067	4962192	509	0:00
205	Non-Participating	698033	4962046	494	0:00
207	Non-Participating	698494	4961053	498	0:00
225	Non-Participating	676853	4976229	580	0:00
226	Non-Participating	678135	4982122	516	0:00
227	Non-Participating	679674	4983073	514	0:00
228	Non-Participating	678464	4984192	519	0:00
229	Non-Participating	682307	4983747	488	0:00
231	Non-Participating	682450	4979759	516	2:06
232	Participating	683016	4979077	517	14:44
233	Non-Participating	684511	4978630	507	2:49
234	Non-Participating	683614	4973334	525	0:00
235	Non-Participating	683053	4969806	546	0:00
236	Participating	684245	4968817	543	0:00
237	Participating	683202	4968178	555	0:03
238	Participating	683105	4968328	552	0:00
239	Non-Participating	683016	4967807	559	0:00
240	Non-Participating	682675	4967857	561	0:00
241	Non-Participating	682639	4967748	565	0:00
242	Non-Participating	682713	4967753	566	0:00
243	Non-Participating	682794	4967839	563	0:00

Receptor	Status	Easting (UTM 14)	Northing (UTM 14)	Ground Elevation (m)	Expected Annual Shadow Flicker Hours
244	Non-Participating	682755	4967758	567	0:00
245	Non-Participating	682689	4967819	562	0:00
246	Non-Participating	682831	4967838	562	0:00
247	Participating	682193	4968103	561	0:00
248	Non-Participating	682502	4967842	561	0:00
249	Non-Participating	682496	4967799	562	0:00
250	Non-Participating	682553	4967662	566	0:00
251	Non-Participating	682698	4967682	567	0:00
252	Non-Participating	682688	4967635	567	0:00
253	Non-Participating	682600	4967649	567	0:00
255	Non-Participating	682570	4967398	571	0:00
256	Non-Participating	684963	4970141	532	0:00
257	Non-Participating	686461	4973411	521	0:00
258	Non-Participating	688454	4973580	513	2:17
259	Non-Participating	688112	4975133	509	21:04
263	Non-Participating	684869	4982990	485	0:00
264	Non-Participating	686291	4983273	476	0:00
265	Non-Participating	687204	4983064	461	0:00
267	Non-Participating	687636	4981940	470	0:00
268	Non-Participating	687926	4980067	480	0:22
269	Non-Participating	686173	4981375	485	0:00
270	Non-Participating	687442	4979742	489	1:22
271	Non-Participating	688049	4979385	487	0:14
272	Non-Participating	686208	4979503	499	5:45
273	Non-Participating	687721	4979046	494	2:07
274	Non-Participating	687963	4978543	494	1:48
275	Non-Participating	686545	4978326	503	0:22
276	Non-Participating	684797	4978196	506	3:46
278	Non-Participating	690981	4980570	431	0:00
279	Non-Participating	691674	4980087	425	0:00
280	Non-Participating	690024	4979348	467	0:00
281	Non-Participating	692582	4979132	423	0:00
282	Participating	693123	4978509	424	0:00
283	Non-Participating	694403	4978773	404	0:00
284	Non-Participating	692812	4977723	431	2:37
285	Non-Participating	692820	4977636	430	2:13
286	Participating	691313	4976830	472	1:37
287	Non-Participating	689844	4976580	491	6:05
288	Participating	690305	4973639	504	1:37
289	Non-Participating	690204	4973129	509	1:02
290	Participating	692830	4974347	472	10:25
291	Participating	693520	4972863	476	12:06
292	Non-Participating	692649	4969610	491	16:59
293	Non-Participating	691851	4967303	524	8:43
294	Non-Participating	692665	4967084	508	21:44

Receptor	Status	Easting (UTM 14)	Northing (UTM 14)	Ground Elevation (m)	Expected Annual Shadow Flicker Hours
295	Non-Participating	697618	4975422	394	0:00
297	Non-Participating	701253	4974308	367	0:00
299	Non-Participating	701813	4972806	369	0:00
300	Non-Participating	701946	4971621	377	0:00
301	Non-Participating	702056	4970870	369	0:00
302	Non-Participating	702305	4970792	379	0:00
303	Non-Participating	701907	4968451	391	0:00
304	Non-Participating	699056	4968082	441	0:00
305	Non-Participating	699214	4969952	424	1:50
306	Non-Participating	699065	4969818	425	1:11
312	Non-Participating	694398	4979727	400	0:00
313	Non-Participating	702340	4968613	397	0:00
314	Non-Participating	699535	4965118	443	0:00
315	Non-Participating	699248	4965104	464	0:00
316	Non-Participating	699274	4964989	455	0:00
317	Non-Participating	699510	4965357	457	0:00
318	Non-Participating	699184	4965340	452	0:00
319	Non-Participating	698631	4965644	462	0:50
320	Participating	692686	4965034	511	1:09
321	Non-Participating	683225	4966963	563	0:03
324	Non-Participating	700890	4973720	372	0:00
325	Non-Participating	695248	4976837	410	4:55
326	Non-Participating	695494	4977161	403	2:04
327	Non-Participating	699753	4975983	370	0:00
331	Non-Participating	702530	4965693	405	0:00
332	Non-Participating	698214	4964717	483	0:15
333	Participating	683349	4965409	579	0:00
334	Non-Participating	683171	4965365	577	0:00
335	Non-Participating	683454	4964615	564	0:00
340	Non-Participating	687436	4963949	526	0:00
341	Non-Participating	693591	4963893	504	8:02
487	Non-Participating	696907	4961027	498	0:00
491	Participating	683039	4973297	524	0:00
492	Non-Participating	702697	4971147	374	0:00
494	Non-Participating	682785	4967785	566	0:00
495	Non-Participating	682367	4967893	557	0:00
496	Non-Participating	682741	4967851	563	0:00
498	Participating	682947	4963870	565	0:00
499	Non-Participating	694354	4962560	510	0:08
596	Non-Participating	684871	4982990	485	0:00
598	Non-Participating	699800	4962703	491	0:00
681	Participating	678753	4971111	573	0:00
682	Participating	679475	4970841	579	0:00
683	Participating	677625	4978124	556	0:00
684	Participating	679117	4978144	537	0:42

Receptor	Status	Easting (UTM 14)	Northing (UTM 14)	Ground Elevation (m)	Expected Annual Shadow Flicker Hours
685	Participating	678281	4980416	529	0:00
686	Participating	680799	4982675	503	0:00
687	Participating	682005	4981475	511	0:00
688	Participating	681368	4980996	522	0:00
690	Participating	683254	4979073	514	17:47
691	Participating	681474	4977172	531	13:12
692	Participating	683177	4978266	516	25:57
693	Participating	683042	4977308	522	2:08
694	Non-Participating	683066	4976707	520	8:27
695	Participating	683811	4976537	523	6:47
696	Participating	683233	4975874	524	21:00
697	Participating	683292	4975394	522	14:10
698	Participating	683113	4974215	526	23:39
699	Participating	683050	4973378	526	0:12
700	Non-Participating	684197	4973476	523	1:38
701	Participating	682141	4973482	531	0:00
702	Participating	681351	4973209	542	0:00
703	Participating	683469	4972089	531	0:00
704	Participating	684053	4972124	527	0:00
705	Participating	683358	4971312	537	0:00
706	Participating	680530	4970175	576	0:00
707	Participating	681527	4969395	571	0:00
708	Participating	681439	4968478	583	0:00
709	Participating	681727	4968780	563	0:00
710	Participating	683243	4968751	543	0:00
711	Participating	683072	4968840	542	0:00
712	Participating	686007	4968526	530	0:10
713	Participating	687277	4967856	525	14:14
715	Participating	687994	4967739	519	18:11
716	Participating	689009	4967501	515	25:23
717	Participating	689189	4967555	515	22:02
718	Participating	686844	4969130	522	0:00
719	Participating	685405	4970407	528	0:00
720	Participating	686371	4970494	530	0:00
721	Participating	688036	4970732	520	0:00
722	Participating	687188	4970836	522	0:00
723	Participating	687113	4970889	519	0:00
724	Non-Participating	686903	4971039	523	0:00
725	Non-Participating	686879	4971059	523	0:00
726	Non-Participating	686858	4971086	520	0:00
727	Participating	686840	4971175	517	0:00
728	Participating	685684	4971347	525	0:00
729	Participating	685738	4971385	525	0:00
730	Participating	685438	4973071	521	0:00
731	Participating	684986	4973346	522	0:21

Receptor	Status	Easting (UTM 14)	Northing (UTM 14)	Ground Elevation (m)	Expected Annual Shadow Flicker Hours
732	Non-Participating	688701	4973465	514	0:14
734	Participating	688118	4976155	506	21:33
735	Participating	686068	4982710	486	0:00
736	Participating	688032	4980926	477	0:00
737	Participating	689311	4981492	438	0:00
738	Participating	686192	4978291	504	0:00
739	Participating	692721	4977888	430	0:11
740	Participating	693555	4976821	430	15:03
741	Participating	693459	4973767	467	24:03
742	Participating	692709	4975986	462	14:11
743	Participating	691213	4974762	488	11:46
744	Participating	689627	4974245	498	7:07
745	Participating	692529	4971903	500	7:40
746	Participating	690138	4972500	509	0:26
747	Non-Participating	690288	4971428	507	1:17
748	Non-Participating	690240	4971667	506	0:45
749	Non-Participating	690160	4971684	505	0:35
750	Participating	693991	4970730	486	8:12
751	Participating	689816	4968557	516	1:11
752	Participating	690566	4968730	503	20:06
753	Participating	692928	4967345	506	12:10
754	Participating	698403	4974533	394	23:37
755	Participating	700129	4973909	378	0:33
756	Participating	700246	4967543	421	0:00
757	Participating	699333	4967582	445	0:00
758	Participating	700599	4973713	374	0:00
759	Participating	699387	4972695	395	1:35
760	Participating	698926	4971866	408	0:47
761	Participating	698874	4971975	395	1:01
762	Participating	699187	4971136	413	1:48
763	Participating	699090	4970287	423	1:52
764	Participating	697449	4971401	426	9:08
765	Participating	695958	4970746	457	14:32
766	Participating	695570	4969140	485	2:52
767	Participating	684839	4976774	513	18:06
768	Participating	679946	4974799	547	8:14
769	Participating	695981	4962736	510	1:28
770	Participating	694456	4964843	513	21:16
771	Participating	689468	4966375	529	25:22
772	Participating	690353	4965883	513	2:48
773	Participating	683128	4966458	576	0:00
775	Participating	682308	4965389	577	0:00
778	Participating	684792	4968834	537	0:00
779	Non-Participating	686978	4971008	521	0:00
780	Participating	687065	4970935	520	0:00

Receptor	Status	Easting (UTM 14)	Northing (UTM 14)	Ground Elevation (m)	Expected Annual Shadow Flicker Hours
781	Participating	685764	4973353	516	0:00
782	Participating	694756	4976632	420	24:57
783	Participating	701420	4965944	414	0:00
786	Participating	687093	4970914	519	0:00
787	Participating	687148	4970867	521	0:00
788	Participating	687225	4970791	520	0:00
790	Participating	699305	4967020	451	0:00
791	Participating	689508	4965573	513	0:00
797	Participating	683096	4968817	542	0:00
798	Participating	685563	4968828	532	0:00
802	Participating	698306	4973333	403	15:19
803	Non-Participating	697749	4964533	483	1:40
804	Participating	684748	4975618	520	25:48
805	Participating	698210	4970836	422	5:08
806	Participating	689275	4966996	521	19:38
807	Participating	685211	4979799	499	47:52

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