

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

DOCKET UE-215

Leo Smith And The International Dark Sky Association	PETITION TO INTERVENE <input checked="" type="checkbox"/> and WAIVER OF PAPER SERVICE
------------------------------------------------------	--------------------------------------------------------------------------------------------------

Leo Smith and The International Dark Sky Association petitions to intervene in this proceeding. In support of this petition, the following is provided:

1. The contact information (name, address, email address) of the petitioner is:

Name: Leo Smith
Company: International Dark Sky Association
Street Address: 1060 Mapleton Avenue
City, State, Zip: Suffield, CT 06078
Email Address: leo@smith.net

Please include this contact on the service list.

2a. The petitioner will will not be represented by counsel in this proceeding. The contact information for petitioner's counsel to be included on the service list is:

Name: [REDACTED]
Company: [REDACTED]
Street Address: [REDACTED]
City, State, Zip: [REDACTED]
Email Address: [REDACTED]

2b. Additional contacts to be included on the service list (a petitioner is limited to two contacts on the service list UNLESS waiving paper service):

Name: James Benya
Company: International Dark Sky Association
Street Address: 3491 Cascade Terrace
City, State, Zip: West Linn, OR 97068
Email Address: jbenya@benyalighting.com

Name:
Company:
Street Address:
City, State, Zip:
Email Address:



Name:
Company:
Street Address:
City, State, Zip:
Email Address:



Additional contacts to be included on the service list are listed on an attached sheet

3. If the petitioner is an organization, the number of members in and the purposes of the organization:

International Dark Sky Association has approximately 10,000 members, with the purpose of reducing energy waste and light pollution caused by excessive outdoor lighting. For further information see the IDA website at www.darksky.org

List of Members attached

4.. The nature and extent of the Petitioner's interest in the proceeding is:

Petitioner's interest in the proceeding is limited to two rates:
Schedule 91 - Street and Highway Lighting and
Schedule 15 - Outdoor Area Lighting.

5. The issues the Petitioner intends to raise at the proceeding are:

1) Under Schedule 91, STREET and HIGHWAY LIGHTING, Character of Service is described as "From dusk to dawn daily, controlled by a photoelectric control or time switch to be mutually agreeable to the Customer and Company for an average of 4,100 hours annually." Petitioner will ask that Portland General Electric be required to amend their Schedules 91 (Street and Highway Lighting) and Schedule 15 (Outdoor Area Lighting) to include a new rate for Midnight Option lighting, with the new rates to be submitted within two years.

2) Under Schedule 91 "Rates for Standard Lighting", PG&E's lowest wattage offering is a 100 watt High Pressure Sodium lamp. High Pressure sodium streetlights are also commercially available in 70 watt and 50 watt. In many cases, these lower wattage streetlights have the same lumen output as the mercury vapor lamps that were used in the 1970's and 1980's. Not including 50 watt and 70 watt

lamps within the Rates for Standard Service forces municipalities to buy higher wattage streetlights than are necessary in many cases.

3) Under Schedule 15, the Midnight Option should also be made available, and a new Midnight Option rate should be submitted within two years

6. The special knowledge or expertise of the Petitioner that would assist the Commission in resolving the issues in the proceeding is:

Leo Smith has participated as an Intervenor before the Department of Public Utility Control in the State of Connecticut, has met with Energy Staff with the Illinois Commerce Commission, and was instrumental in New Hampshire legislation adopted in 2009 which requires the Midnight Option for streetlight rates.

7. Based on the information provided above in accordance with the Commission's rules of procedure, I request to participate in this proceeding as an intervenor. I or the organization that I represent will not unreasonably broaden the issues, burden the record, or unreasonably delay the proceeding. OAR 860-012-0001.



Petitioner or Petitioner's Representative

March 1, 2010

Date Signed

LEO SMITH
1060 MAPLETON AVENUE
SUFFIELD, CT 06078
860 668 4000
leo@smith.net

Area of Expertise: Streetlight Analysis - Levels of light - Warranting - Location and Time of Operation - Municipal Control of Light Pollution - Light Trespass - Glare

Credentials: Leo Smith is a member of the Illuminating Engineering Society of North America (IESNA) and the International Dark Sky Association (IDA). He is one of 8 members of the IDA/IESNA Joint Task Force working to develop the Outdoor Model Lighting Ordinance (MLO) for municipalities.

He also serves as a member of the following committees and boards:

Board of Directors, IDA (2004 through 2007 and May 2008 through Present)

Member, Illuminating Engineering Society of North America (IESNA)
Roadway Lighting Committee (IESNA)
Chair, Task Force on When Roadway Lighting May Not Be
Necessary
Standard Practice Subcommittee

Lighting for Exterior Environments Committee (IESNA)

Northeast Regional Director (IDA) (2007 through Present)

Connecticut Section Leader (IDA) (2002 through Present)

Legislation: Drafted language that was used for three Connecticut laws and one state building code amendment designed to control light pollution

CT Public Act 01-134 *AN ACT REQUIRING ENERGY EFFICIENT ROADWAY LIGHTS.*

CT Public Act 03-210 *AN ACT REQUIRING REDUCTION IN HAZARDOUS ROAD GLARE AND LIGHT POLLUTION FROM PRIVATE AREA FLOODLIGHTING LOCATED WITHIN THE STATE RIGHT-OF-WAY*

CT Public Act 06-86 *AN ACT CONCERNING LUMINAIRES AT STATE AGENCIES*

Agency Regulation

2004 Amendment to Connecticut State Building Code. New Section 805.6.1 on Light Pollution Controls (2003 International Energy Conservation Code)

2007 Intervenor in CL&P electric utility rate case setting requirements for midnight service rates under streetlight tariffs.(Docket 07-07-01)

2010 Intervenor in CL&P electric utility rate case on CL&P proposed rates for streetlights with Midnight Option (Docket 09-12-05)

Industry Awards

2006 IESNA President's Award for work on the Model Outdoor Lighting Ordinance (MLO)

2006 IDA Executive Director Award (MLO)

2003 IDA Hoag/Robinson Award

2001 IDA Executive Director Award

Certificate of Service

I hereby certify that I have this day caused this PETITION TO INTERVENE to be served by electronic email to those parties whose email addresses appear on the below Service List, and by First Class US Mail, postage prepaid and properly addressed, to those parties on the below service list who have not waived paper service from OPUC Docket UE-215.

Dated at Suffield, Connecticut this 3rd day of March, 2010.



Leo Smith, Director
International Dark Sky Association
1060 Mapleton Avenue
Suffield, CT 06078
860 668 4000
leo@smith.net

SERVICE LIST
OPUC Docket # UE-215

<p>KEVIN ELLIOTT PARKS (C) STAFF ATTORNEY CITIZENS UTILITY BOARD OF OREGON 610 SW BROADWAY STE 308 PORTLAND OR 97205 kevin@oregoncub.org - W</p>	<p>GORDON FEIGNER (C) ENERGY ANALYST CITIZENS UTILITY BOARD OF OREGON 610 SW BROADWAY STE 308 PORTLAND OR 97205 gordon@oregoncub.org - W</p>
<p>ROBERT JENKS (C) Executive Director CITIZENS UTILITY BOARD OF OREGON 610 SW BROADWAY STE 308 PORTLAND OR 97205 bob@oregoncub.org</p>	<p>G. CATRIONA MCCRACKEN (C) LEGAL COUNSEL/STAFF ATTY CITIZENS UTILITY BOARD OF OREGON 610 SW BROADWAY STE 308 PORTLAND OR 97205 catriona@oregoncub.org</p>
<p>RAYMOND MYERS (C) Attorney CITIZENS UTILITY BOARD OF OREGON 610 SW BROADWAY STE 308 PORTLAND OR 97205 ray@oregoncub.org</p>	<p>STEPHANIE S ANDRUS (C) ASSISTANT ATTORNEY GENERAL REGULATED UTILITY & BUSINESS SEC. 1162 COURT ST NE SALEM OR 97301-4096 stephanie.andrus@state.or.us</p>
<p>RANDALL DAHLGREN (C) RATES & REGULATORY AFFAIRS PORTLAND GENERAL ELECTRIC 121 SW SALMON ST - 1WTC0702 PORTLAND OR 97204 pge.opuc.filings@pgn.com</p>	<p>DOUGLAS C TINGEY (C) ASST GENERAL COUNSEL PORTLAND GENERAL ELECTRIC 121 SW SALMON ST - 1WTC0702 PORTLAND OR 97204 doug.tingey@pgn.com</p>
<p>JUDY JOHNSON (C) PUBLIC UTILITY COMMISSION PO BOX 2148 SALEM OR 97308-2148 judy.johnson@state.or.us</p>	

Exhibit CRG-10
Street Lighting Unbundling

Dated: January 8, 2010

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1 The Connecticut Light & Power Company
2 Docket No. 09-12-05
3 Witness Responsible: C. R. Goodwin

4 **Rate 116 - Full Service Street Lighting**

5 High Pressure Sodium 6300
6 Lumens 84
7 Wattage

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Burn Hours	433	365	364	310	280	251	269	301	334	388	413	442	4150
kWh	36	30	30	26	23	21	22	25	28	32	34	37	345

Current Bundled Pricing

Monthly Rate	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	\$6.47	\$6.47	\$6.47	\$6.47	\$6.47	\$6.47	\$6.47	\$6.47	\$6.47	\$6.47	\$6.47	\$6.47	\$77.61
Per kWh Charges													
FMCC-Delivery	\$0.08	\$0.07	\$0.07	\$0.06	\$0.05	\$0.05	\$0.05	\$0.06	\$0.06	\$0.07	\$0.08	\$0.08	\$0.78
FMCC-Generation	\$0.11	\$0.09	\$0.09	\$0.08	\$0.07	\$0.06	\$0.07	\$0.08	\$0.08	\$0.10	\$0.10	\$0.11	\$1.04
GSC	\$3.22	\$2.72	\$2.71	\$2.31	\$2.08	\$1.87	\$2.00	\$2.24	\$2.49	\$2.89	\$3.07	\$3.29	\$30.89
Total Monthly Charge	\$9.88	\$9.34	\$9.34	\$8.91	\$8.67	\$8.45	\$8.59	\$8.84	\$9.10	\$9.52	\$9.72	\$9.95	\$110.31

Proposed Unbundled Pricing

Monthly Rate	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	\$5.55	\$5.55	\$5.55	\$5.55	\$5.55	\$5.55	\$5.55	\$5.55	\$5.55	\$5.55	\$5.55	\$5.55	\$66.62
Per kWh Charges													
Transmission	\$0.41	\$0.34	\$0.34	\$0.29	\$0.26	\$0.24	\$0.25	\$0.28	\$0.31	\$0.36	\$0.39	\$0.41	\$3.89
CTA	\$0.55	\$0.46	\$0.46	\$0.39	\$0.36	\$0.32	\$0.34	\$0.38	\$0.42	\$0.49	\$0.52	\$0.56	\$5.27
SBC	\$0.05	\$0.04	\$0.04	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.04	\$0.04	\$0.04	\$0.05	\$0.45
Conservation	\$0.11	\$0.09	\$0.09	\$0.08	\$0.07	\$0.06	\$0.07	\$0.08	\$0.08	\$0.10	\$0.10	\$0.11	\$1.04
Renewable Energy	\$0.04	\$0.03	\$0.03	\$0.03	\$0.02	\$0.02	\$0.02	\$0.03	\$0.03	\$0.03	\$0.03	\$0.04	\$0.35
FMCC-Delivery	\$0.08	\$0.07	\$0.07	\$0.06	\$0.05	\$0.05	\$0.05	\$0.06	\$0.06	\$0.07	\$0.08	\$0.08	\$0.78
FMCC-Generation	\$0.11	\$0.09	\$0.09	\$0.08	\$0.07	\$0.06	\$0.07	\$0.08	\$0.08	\$0.10	\$0.10	\$0.11	\$1.04
GSC	\$3.22	\$2.72	\$2.71	\$2.31	\$2.08	\$1.87	\$2.00	\$2.24	\$2.49	\$2.89	\$3.07	\$3.29	\$30.89
Total Monthly Charge	\$10.11	\$9.39	\$9.38	\$8.81	\$8.50	\$8.19	\$8.38	\$8.72	\$9.07	\$9.64	\$9.90	\$10.20	\$110.30
Difference	\$0.23	\$0.05	\$0.05	-\$0.10	-\$0.17	-\$0.25	-\$0.20	-\$0.12	-\$0.03	\$0.11	\$0.18	\$0.25	-\$0.01

The Connecticut Light & Power Company
 Docket No. 09-12-05
 Witness Responsible: C. R. Goodwin

RATE 116

Dated: January 8, 2010

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Rate 116 - Full Service Streetlighting

	Type/Size	Wattage	Distribution Monthly Rate	Annual kWh		Annual Bill \$					
				Dusk-to-Dawn	Midnight Option	Dusk-to-Dawn	Midnight Option	Difference	Percent Change		
10	<u>Incandescent</u>										
11	600 lumen	59	\$5.58	242	129	\$97.67	\$83.33	-\$14.34	-14.7%		
12	1,000	104	\$4.65	427	228	\$109.85	\$84.57	-\$25.28	-23.0%		
13	2,500	203	\$2.52	834	444	\$135.81	\$86.46	-\$49.35	-36.3%		
14	4,000	328	\$1.98	1348	718	\$194.33	\$114.59	-\$79.74	-41.0%		
15	6,000	449	\$2.67	1845	982	\$265.59	\$156.43	-\$109.16	-41.1%		
16	10,000	691	\$4.18	2839	1512	\$409.50	\$241.52	-\$167.99	-41.0%		
17	<u>Mercury Vapor</u>										
18	4,000 lumen	118	\$4.77	485	258	\$118.66	\$89.98	-\$28.69	-24.2%		
19	8,000	206	\$5.16	846	451	\$168.99	\$118.91	-\$50.08	-29.6%		
20	12,500	287	\$6.34	1179	628	\$225.37	\$155.60	-\$69.77	-31.0%		
21	22,500	455	\$7.51	1869	995	\$326.70	\$216.08	-\$110.61	-33.9%		
22	60,000	1,103	\$13.58	4532	2413	\$736.63	\$468.48	-\$268.15	-36.4%		
23	<u>High Pressure Sodium</u>										
24	4,000 lumen	59	\$5.59	242	129	\$97.79	\$83.45	-\$14.34	-14.7%		
25	6,300	84	\$5.55	345	184	\$110.30	\$89.88	-\$20.42	-18.5%		
26	9,500	118	\$5.89	485	258	\$132.10	\$103.42	-\$28.69	-21.7%		
27	13,000	190	\$6.28	781	416	\$174.15	\$127.96	-\$46.19	-26.5%		
28	16,000	172	\$6.29	707	376	\$164.95	\$123.14	-\$41.81	-25.3%		
29	27,500	311	\$8.00	1278	680	\$257.69	\$182.09	-\$75.61	-29.3%		
30	50,000	472	\$9.00	1939	1033	\$353.42	\$238.68	-\$114.75	-32.5%		
31	140,000	1103	\$17.33	4532	2413	\$781.63	\$513.48	-\$268.15	-34.3%		
32	<u>Metal Halide</u>										
33	3,450 Lumen	72	\$8.08	296	158	\$134.45	\$116.94	-\$17.50	-13.0%		
34	5,200	89	\$7.13	366	195	\$131.80	\$110.17	-\$21.64	-16.4%		
35	8,500	119	\$7.12	489	260	\$147.31	\$118.38	-\$28.93	-19.6%		
36	14,400	207	\$8.07	850	453	\$204.48	\$154.16	-\$50.32	-24.6%		
37	22,000	289	\$9.23	1187	632	\$261.09	\$190.83	-\$70.26	-26.9%		
38	36,000	451	\$10.41	1853	987	\$359.43	\$249.78	-\$109.64	-30.5%		
39	110,000	1080	\$18.84	4437	2363	\$787.79	\$525.23	-\$262.56	-33.3%		

EXHIBIT CRG-11
Comparison Dusk-to-Dawn vs Midnight Option

RATE 117

Dated: January 8, 2010
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The Connecticut Light & Power Company
Docket No. 09-12-05
Witness Responsible: C. R. Goodwin
Rate 117 - Partial Service Streetlighting

	Type/Size	Wattage	Distribution Monthly Rate	Annual kWh		Annual Bill \$		Percent Change	
				Dusk-to-Dawn	Midnight Option	Dusk-to-Dawn	Midnight Option		Difference
11	<u>Incandescent</u>								
12		59	\$2.21	245	130	\$57.55	\$43.06	-\$14.49	-25.2%
13		104	\$2.96	432	230	\$90.13	\$64.60	-\$25.54	-28.3%
14		203	\$1.93	842	449	\$129.75	\$79.90	-\$49.85	-38.4%
15		328	\$1.71	1,361	725	\$192.78	\$112.23	-\$80.55	-41.8%
16		449	\$2.45	1,863	992	\$265.22	\$154.96	-\$110.26	-41.6%
17		691	\$4.35	2,868	1,527	\$415.18	\$245.49	-\$169.69	-40.9%
18	<u>Mercury Vapor</u>								
19		118	\$1.09	490	261	\$75.01	\$46.04	-\$28.98	-38.6%
20		206	\$1.67	855	455	\$128.29	\$77.70	-\$50.59	-39.4%
21		287	\$2.46	1,191	634	\$180.27	\$109.79	-\$70.48	-39.1%
22		455	\$3.52	1,888	1,006	\$281.23	\$169.50	-\$111.73	-39.7%
23		1103	\$9.00	4,577	2,438	\$687.44	\$416.58	-\$270.86	-39.4%
24	<u>High Pressure Sodium</u>								
25		59	\$0.36	245	130	\$35.35	\$20.86	-\$14.49	-41.0%
26		84	\$0.50	349	186	\$50.12	\$29.49	-\$20.63	-41.2%
27		118	\$0.84	490	261	\$72.01	\$43.04	-\$28.98	-40.2%
28		172	\$1.42	714	380	\$107.36	\$65.12	-\$42.24	-39.3%
29		190	\$1.44	789	420	\$117.11	\$70.46	-\$46.66	-39.8%
30		311	\$2.65	1,291	687	\$195.19	\$118.82	-\$76.37	-39.1%
31		472	\$3.46	1,959	1,043	\$289.46	\$173.55	-\$115.91	-40.0%
32		1103	\$9.00	4,577	2,438	\$687.44	\$416.58	-\$270.86	-39.4%
33	<u>Metal Halide</u>								
34		72	\$0.48	299	159	\$43.54	\$25.86	-\$17.68	-40.6%
35		89	\$0.60	369	197	\$53.96	\$32.11	-\$21.86	-40.5%
36		119	\$0.81	494	263	\$72.18	\$42.96	-\$29.22	-40.5%
37		207	\$1.39	859	457	\$125.46	\$74.63	-\$50.83	-40.5%
38		289	\$1.95	1,199	639	\$175.24	\$104.28	-\$70.97	-40.5%
39		451	\$3.05	1,872	997	\$273.52	\$162.77	-\$110.75	-40.5%
40		1080	\$7.30	4,462	2,387	\$654.93	\$399.71	-\$255.22	-40.5%
41	<u>Other Wattage</u>								
42		14	\$0.10	58	31	\$8.52	\$5.08	-\$3.44	-40.4%
43		16	\$0.10	66	35	\$9.62	\$5.69	-\$3.93	-40.9%
44		18	\$0.12	75	40	\$10.95	\$6.53	-\$4.42	-40.4%
45		23	\$0.16	95	51	\$14.04	\$8.39	-\$5.65	-40.2%
46		28	\$0.19	116	62	\$17.04	\$10.16	-\$6.88	-40.4%
47		40	\$0.27	166	88	\$24.22	\$14.40	-\$9.82	-40.6%
48		42	\$0.29	174	93	\$25.56	\$15.25	-\$10.31	-40.4%
49		48	\$0.32	199	106	\$29.09	\$17.30	-\$11.79	-40.5%
50		54	\$0.36	224	119	\$32.70	\$19.44	-\$13.26	-40.5%
51		71	\$0.49	295	157	\$43.13	\$25.69	-\$17.44	-40.4%
52		90	\$0.60	374	199	\$54.49	\$32.39	-\$22.10	-40.6%
53		144	\$0.98	588	318	\$87.36	\$52.00	-\$35.36	-40.5%
54		175	\$1.18	726	387	\$106.14	\$63.17	-\$42.97	-40.5%
55		180	\$1.22	747	398	\$109.23	\$65.03	-\$44.20	-40.5%
56		204	\$1.38	847	451	\$123.71	\$73.62	-\$50.10	-40.5%
57		238	\$1.62	988	526	\$144.41	\$85.96	-\$58.44	-40.5%
58		250	\$1.70	1,038	553	\$151.67	\$90.28	-\$61.39	-40.5%
59		289	\$1.95	1,199	639	\$175.24	\$104.28	-\$70.97	-40.5%
60		300	\$2.03	1,245	663	\$181.98	\$108.31	-\$73.67	-40.5%
61		451	\$3.05	1,872	997	\$273.52	\$162.77	-\$110.75	-40.5%
62		480	\$3.24	1,992	1,061	\$291.09	\$173.22	-\$117.87	-40.5%
63		1,520	\$10.28	6,308	3,359	\$921.83	\$548.57	-\$373.26	-40.5%