

**Existing Generation Resource Listing for Locational Forward Reserves Market (LFRM)**

compiled by London Economics International LLC for DPUC revised August 25 Needs Assessment

Resource Name	Region	Summer Capacity (MW)	LFRM Offer (MW)	On-line/off-line unit	Fuel Type
AES THAMES	CT	181.0	9.1	on-line	Coal
BRANFORD 10	SWCT	15.8	15.8	off-line	Distillate Oil
BRIDGEPORT ENERGY 1	SWCT	446.5	0.0	on-line	Natural Gas
BRIDGEPORT HARBOR 2	SWCT	130.5	0.0	on-line	Residual Oil
BRIDGEPORT HARBOR 3	SWCT	372.2	18.5	on-line	Coal
BRIDGEPORT HARBOR 4	SWCT	9.9	9.9	off-line	Distillate Oil
BRIDGEPORT RESCO	SWCT	58.5	2.9	on-line	Other
CDECCA	CT	51.7	5.2	on-line	Dual Fuel
Composite NUG units in CT	CT	47.1	2.4	on-line	Other
COS COB 10	NOR	17.9	17.9	off-line	Distillate Oil
COS COB 11	NOR	18.2	18.2	off-line	Distillate Oil
COS COB 12	NOR	18.4	18.4	off-line	Distillate Oil
DEVON 11	SWCT	29.6	29.6	on-line	Dual Fuel
DEVON 12	SWCT	29.2	29.2	on-line	Dual Fuel
DEVON 13	SWCT	30.8	30.8	on-line	Dual Fuel
DEVON 14	SWCT	29.8	29.8	on-line	Dual Fuel
DEXTER	CT	38.0	3.8	on-line	Dual Fuel
EXETER	CT	24.2	1.2	on-line	Other
FRANKLIN DRIVE 10	CT	15.4	15.4	off-line	Distillate Oil
MIDDLETOWN 10	CT	17.1	0.0	on-line	Distillate Oil
MIDDLETOWN 2	CT	117.0	0.0	on-line	Dual Fuel
MIDDLETOWN 3	CT	236.0	0.0	on-line	Dual Fuel
MIDDLETOWN 4	CT	400.0	0.0	on-line	Residual Oil
Milford	SWCT	492.1	0.0	on-line	Dual Fuel
MILLSTONE POINT 2	CT	856.9	0.0	on-line	Nuclear
MILLSTONE POINT 2_1	CT	25.3	0.0	on-line	Nuclear
MILLSTONE POINT 3	CT	1,031.2	0.0	on-line	Nuclear
MILLSTONE POINT 3_1	CT	50.0	0.0	on-line	Nuclear
MILLSTONE POINT 3_2	CT	54.2	0.0	on-line	Nuclear
MILLSTONE POINT 3_3	CT	19.6	0.0	on-line	Nuclear
MONTVILLE 10 AND 11	CT	5.3	0.0	on-line	Distillate Oil
MONTVILLE 5	CT	81.0	0.0	on-line	Dual Fuel
MONTVILLE 6	CT	407.4	0.0	on-line	Residual Oil
NEW HAVEN HARBOR	CT	447.9	0.0	on-line	Dual Fuel
NORWALK HARBOR 1	NOR	162.0	8.1	on-line	Residual Oil
NORWALK HARBOR 10 (3)	NOR	11.9	11.9	off-line	Distillate Oil
NORWALK HARBOR 2	NOR	168.0	8.4	on-line	Residual Oil
NORWICH JET	CT	15.3	0.0	on-line	Distillate Oil
PPL WALLINGFORD UNIT 1	SWCT	43.5	17.6	on-line	Natural Gas
PPL WALLINGFORD UNIT 2	SWCT	41.4	41.4	on-line	Natural Gas
PPL WALLINGFORD UNIT 3	SWCT	43.5	43.5	on-line	Natural Gas
PPL WALLINGFORD UNIT 4	SWCT	44.5	44.5	on-line	Natural Gas
PPL WALLINGFORD UNIT 5	SWCT	42.6	42.6	on-line	Natural Gas
WALLINGFORD REFUSE	SWCT	6.4	0.3	on-line	Other
SO. MEADOW 11	CT	35.8	35.8	off-line	Distillate Oil
SO. MEADOW 12	CT	37.7	37.7	off-line	Distillate Oil
SO. MEADOW 13	CT	38.3	38.3	off-line	Distillate Oil
SO. MEADOW 14	CT	37.4	37.4	off-line	Distillate Oil
SO. MEADOW 5	CT	25.6	1.3	on-line	Other
SO. MEADOW 6	CT	27.1	1.4	on-line	Other
TORRINGTON TERMINAL 10	CT	16.9	14.4	on-line	Distillate Oil
TUNNEL 10	CT	15.9	15.9	off-line	Distillate Oil
Composite small hydro units in CT	CT	23.8	0.0	on-line	Hydro
Falls Village	CT	9.8	0.0	on-line	Hydro
Rocky River (NU)-PS	SWCT	29.4	17.6	on-line	Hydro
Shepaug	SWCT	41.5	20.8	on-line	Hydro
Stevenson	SWCT	28.3	14.2	on-line	Hydro
Composite small hydro units in SWCT	SWCT	16.4	0.0	on-line	Hydro
<b>capacity per CELT 2006 =</b>		<b>6,768.5</b>	<b>711.0</b>	<b>MW</b>	

## Existing Generation Resource Listing for Forward Capacity Market (FCM)

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Resource Name	Region	Summer Capacity (MW)	Fuel Type
AES THAMES	CT	181.0	Coal
BRANFORD 10	SWCT	15.8	Distillate Oil
BRIDGEPORT ENERGY 1	SWCT	446.5	Natural Gas
BRIDGEPORT HARBOR 2	SWCT	130.5	Residual Oil
BRIDGEPORT HARBOR 3	SWCT	372.2	Coal
BRIDGEPORT HARBOR 4	SWCT	9.9	Distillate Oil
BRIDGEPORT RESCO	SWCT	58.5	Other
CDECCA	CT	51.7	Dual Fuel
Composite NUG units in CT	CT	47.1	Other
COS COB 10	NOR	17.9	Distillate Oil
COS COB 11	NOR	18.2	Distillate Oil
COS COB 12	NOR	18.4	Distillate Oil
DEVON 11	SWCT	29.6	Dual Fuel
DEVON 12	SWCT	29.2	Dual Fuel
DEVON 13	SWCT	30.8	Dual Fuel
DEVON 14	SWCT	29.8	Dual Fuel
DEXTER	CT	38.0	Dual Fuel
EXETER	CT	24.2	Other
FRANKLIN DRIVE 10	CT	15.4	Distillate Oil
MIDDLETOWN 10	CT	17.1	Distillate Oil
MIDDLETOWN 2	CT	117.0	Dual Fuel
MIDDLETOWN 3	CT	236.0	Dual Fuel
MIDDLETOWN 4	CT	400.0	Residual Oil
Milford	SWCT	492.1	Dual Fuel
MILLSTONE POINT 2	CT	856.9	Nuclear
MILLSTONE POINT 2_1	CT	25.3	Nuclear
MILLSTONE POINT 3	CT	1,031.2	Nuclear
MILLSTONE POINT 3_1	CT	50.0	Nuclear
MILLSTONE POINT 3_2	CT	54.2	Nuclear
MILLSTONE POINT 3_3	CT	19.6	Nuclear
MONTVILLE 10 AND 11	CT	5.3	Distillate Oil
MONTVILLE 5	CT	81.0	Dual Fuel
MONTVILLE 6	CT	407.4	Residual Oil
NEW HAVEN HARBOR	CT	447.9	Dual Fuel
NORWALK HARBOR 1	NOR	162.0	Residual Oil
NORWALK HARBOR 10 (3)	NOR	11.9	Distillate Oil
NORWALK HARBOR 2	NOR	168.0	Residual Oil
NORWICH JET	CT	15.3	Distillate Oil
PPL WALLINGFORD UNIT 1	SWCT	43.5	Natural Gas
PPL WALLINGFORD UNIT 2	SWCT	41.4	Natural Gas
PPL WALLINGFORD UNIT 3	SWCT	43.5	Natural Gas
PPL WALLINGFORD UNIT 4	SWCT	44.5	Natural Gas
PPL WALLINGFORD UNIT 5	SWCT	42.6	Natural Gas
WALLINGFORD REFUSE	SWCT	6.4	Other
SO. MEADOW 11	CT	35.8	Distillate Oil
SO. MEADOW 12	CT	37.7	Distillate Oil
SO. MEADOW 13	CT	38.3	Distillate Oil
SO. MEADOW 14	CT	37.4	Distillate Oil
SO. MEADOW 5	CT	25.6	Other
SO. MEADOW 6	CT	27.1	Other
TORRINGTON TERMINAL 10	CT	16.9	Distillate Oil
TUNNEL 10	CT	15.9	Distillate Oil
Composite small hydro units in CT	CT	23.8	Hydro
Falls Village	CT	9.8	Hydro
Rocky River (NU)-PS	SWCT	29.4	Hydro
Shepaug	SWCT	41.5	Hydro
Stevenson	SWCT	28.3	Hydro
Composite small hydro units in SWCT	SWCT	16.4	Hydro
<b>capacity per CELT 2006 =</b>		<b>6,768.5</b>	<b>MW</b>

## Demand Response/ Energy Efficiency/ Distributed Generation Resource Listing for Forward Capacity Market (FCM)

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Program	Location	Capacity (ICAP) (MW) <sup>(1)</sup>			
		2007	2008	2009	2010 - 2021
<b>ISO-NE Demand Response</b>					
ISO Demand Response in CT <sup>(2)</sup>	CT	143.7	71.85	71.85	71.85
ISO Demand Response in SWCT <sup>(2)</sup>	SWCT	17.0	8.50	8.50	8.50
<b>CT DPUC Phase I</b>					
CL&P C&LM program <sup>(3)</sup>	CT	34.65	34.65	34.65	34.65
UI C&LM program <sup>(3)</sup>	SWCT	8.65	8.65	8.65	8.65
Awarded DG program	CT	0.0	34.3	68.7	103.0
DR approved in May '06 <sup>(2)</sup>	CT	60.0	30.0	30.0	30.0
EnerNOC <sup>(2)</sup>	CT	115.0	57.5	57.5	57.5
<b>SWCT GAP RFP</b>					
Resources selected in ISO-NE SWCT RFP - C&LM <sup>(2)</sup>	SWCT	5.30	2.65	2.65	2.65
DR program selected in ISO-NE SWCT RFP - Emergency Generation <sup>(2)</sup>	SWCT	150.00	0.00	0.00	0.00
DR program selected in ISO-NE SWCT RFP - Load Reduction <sup>(2)</sup>	SWCT	74.10	37.05	37.05	37.05
DR program selected in ISO-NE SWCT RFP - Resources to be Designated <sup>(2)</sup>	SWCT	26.70	13.35	13.35	13.35
<b>Total (SWCT)</b>		<b>281.8</b>	<b>70.2</b>	<b>70.2</b>	<b>70.2</b>
<b>Total (rest of Connecticut)</b>		<b>353.4</b>	<b>228.3</b>	<b>262.7</b>	<b>297.0</b>
<b>Total (Connecticut)</b>		<b>635.1</b>	<b>298.5</b>	<b>332.9</b>	<b>367.2</b>

Note:

- 1) A 9.5% forced outage rate (FOR) is applied to demand response/ energy efficiency/ C&LM programs. DG programs have a 0% FOR.
- 2) We assume 50% of non-emergency generation demand response program continues after May 2008, while the remainder is retired (including the retirement of 100% of the emergency generation resources currently under contract under the SWCT GAP RFP)
- 3) We assume 100% of the utility C&LM program continues.

## Demand Forecast by RSP Sub-region

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	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	CAGR
<b>CT</b>																
Peak demand (MW)	3,630	3,695	3,780	3,865	3,955	4,050	4,115	4,175	4,230	4,309	4,390	4,472	4,556	4,641	4,728	1.9%
Energy (GWh)	17,105	17,320	17,600	17,915	18,235	18,565	18,825	19,080	19,310	19,564	19,821	20,081	20,345	20,612	20,883	1.3%
Growth in peak demand		1.8%	2.3%	2.2%	2.3%	2.4%	1.6%	1.5%	1.3%	1.9%	1.9%	1.9%	1.9%	1.9%	1.9%	
<b>SWCT</b>																
Peak demand (MW)	2,380	2,430	2,490	2,555	2,625	2,675	2,710	2,740	2,770	2,822	2,876	2,930	2,986	3,042	3,100	1.9%
Energy (GWh)	11,340	11,520	11,755	12,005	12,260	12,440	12,570	12,695	12,810	12,984	13,160	13,339	13,520	13,704	13,890	1.4%
Growth in peak demand		2.1%	2.5%	2.6%	2.7%	1.9%	1.3%	1.1%	1.1%	1.9%	1.9%	1.9%	1.9%	1.9%	1.9%	
<b>Norwalk</b>																
Peak demand (MW)	1,270	1,290	1,315	1,340	1,365	1,395	1,415	1,435	1,455	1,478	1,502	1,526	1,551	1,576	1,601	1.6%
Energy (GWh)	5,850	5,895	5,960	6,035	6,110	6,210	6,290	6,370	6,440	6,502	6,565	6,629	6,693	6,758	6,823	1.0%
Growth in peak demand		1.6%	1.9%	1.9%	1.9%	2.2%	1.4%	1.4%	1.4%	1.6%	1.6%	1.6%	1.6%	1.6%	1.6%	

Sources: ISO-NE CELT 2006. Note that figures in blue reflect calculated estimates based on ISO-NE forecast growth rates.

## Transmission Interface Limits for Forward Capacity Market (FCM)

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Interface	Interface limits (MW)	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
into Connecticut	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
into Southwest Connecticut	2,350	2,350	2,350	2,350	3,650	3,650	3,650	3,650	3,650	3,650	3,650	3,650	3,650	3,650	3,650	3,650