



Market Share Offer Control 2015

June 30, 2015

The Market Surveillance Administrator is an independent enforcement agency that protects and promotes the fair, efficient and openly competitive operation of Alberta's wholesale electricity markets and its retail electricity and natural gas markets. The MSA also works to ensure that market participants comply with the Alberta Reliability Standards and the Independent System Operator's rules.

1. Assessment of Offer Control

Section 5 of the Fair, Efficient and Open Competition Regulation (the FEOC Regulation) requires that the Alberta Market Surveillance Administrator (MSA) publish certain metrics that reflect the percentage of offer control held by market participants at least annually.¹ Details of the process to collect and publish information on offer control are set out in the MSA's Market Share Offer Control (MSOC) Process.²

In accordance with the process, the MSA calculated offer control information from the Alberta Electric System Operator (AESO) for the period April 1, 2015, hour ending 17. On June 8, 2015 the MSA requested confirmation of offer control from participants whose total offer control was calculated at greater than five percent, or where the existence of joint ventures required further clarification.

As per Section 5(2) of FEOC Regulation, a participant's total offer control is measured as the ratio of megawatts under its control to the total megawatts of generation in Alberta.

Table 1: 2015 Market Share Offer Control

Company	2015-04-01	
	Control (MW)	%
ENMAX	2,699	17.0%
TransCanada	2,609	16.5%
TransAlta	2,221	14.0%
Capital Power	1,722	10.9%
ATCO	1,659	10.5%
Other	4,547	28.7%
Total Dispatchable	15,456	97.5%
Total Non-dispatchable	399	2.5%
Total	15,855	100.0%

Further details on offer control are provided in the appendix, including: a list of associates of the largest market participants, and the individual assets under a market participant's control, and a breakdown of offer control by unit is provided. The definition of 'market participant' in Section 5 of the FEOC Regulation is broader than that in the Electric Utilities Act and some entities have a large number of associates. For this reason the list of associates for a market participant should not be considered as complete, rather it is the affiliates identified with offer control in the hour of assessment. The MSA also notes that in some cases associates do not individually hold 'ultimate offer control' over any assets.

¹ For 2015, the assessment was delayed until April 1, 2015 in order to capture the impact of wind generation on offer control following the new wind offer rules which took effect April 1, 2015. For more details, see section 2.2 below.

² Market Surveillance Administrator, [Annual Market Share Offer Control Process](#), April 30, 2013

For 2015, total offer control among market participants with greater than five percent MSOC increased to 68.8%, up from 63.9% last year. This consolidation of market power can be largely attributed to the addition of the Shepard Energy Centre as well as the new Dispatchable Wind Rule Changes of which the associated generation is primarily owned by those with the highest MSOC.

Due to the significant changes, there has been a re-ordering of market participants with the highest MSOC. With the completion Shepard and the addition of its wind generation, ENMAX has moved from fourth to first place with 17.0% offer control. ATCO which was previously third has dropped to fifth place while the Balancing Pool, previously sixth has dropped to seventh.

Table 2: Market Share Offer Control 2014/2015 (All Companies)

Company	2014-02-23		2015-04-01	
	Control (MW)	%	Control (MW)	%
ENMAX	1,598	11.2%	2,699	17.0%
TransCanada	2,545	17.9%	2,609	16.5%
TransAlta	1,807	12.7%	2,221	14.0%
Capital Power	1,463	10.3%	1,722	10.9%
ATCO	1,675	11.8%	1,659	10.5%
Other	3,751	26.3%	4,547	28.7%
Suncor Energy Inc.	525	3.7%	673	4.2%
Balancing Pool	762	5.4%	562	3.5%
Imperial Oil Limited	180	1.3%	350	2.2%
Nexen Inc.	340	2.4%	340	2.1%
Dow Chemical Canada ULC	326	2.3%	326	2.1%
EDF EN Canada Development Inc.	--	--	300	1.9%
City of Medicine Hat	210	1.5%	210	1.3%
MEG Energy Corp.	202	1.4%	202	1.3%
Alberta Newsprint Company / ANC Power Inc.	63	0.4%	163	1.0%
Maxim Power Corp.	149	1.0%	149	0.9%
Syncrude Canada Ltd.	100	0.7%	100	0.6%
Cenovus FCCL Ltd.	94	0.7%	98	0.6%
Air Liquide Canada Inc.	96	0.7%	96	0.6%
Exelon Corporation	93	0.7%	93	0.6%
NextEra Energy Resources, LLC	--	--	82	0.5%
Castle Rock Ridge LP	--	--	77	0.5%
Powerex Corp.	73	0.5%	73	0.5%
Alberta Pacific Forest Industries	67	0.5%	67	0.4%
Canadian Natural Resources Ltd.	65	0.5%	65	0.4%
AltaGas Ltd.	65	0.5%	62	0.4%
Daishowa-Marubeni Int. Ltd.	52	0.4%	52	0.3%
Weyerhaeuser Company Ltd.	48	0.3%	48	0.3%

Oldman 2 Wind Farm Ltd.	--	--	46	0.3%
Irrigation Canal Power Co-op Ltd.	7	0.0%	43	0.3%
Cancarb Ltd.	--	--	42	0.3%
URICA Energy Real Time Ltd.	--	--	30	0.2%
Canadian Forest Products Ltd.	27	0.2%	27	0.2%
Whitecourt Power Ltd.	--	--	25	0.2%
Signalta Resources Limited	--	--	21	0.1%
Genalta III GP Ltd.	--	--	20	0.1%
Northstone Power Corp.	12	0.1%	20	0.1%
NRGreen Power Limited Partnership	19	0.1%	19	0.1%
Algonquin Power Operating Trust	15	0.1%	15	0.1%
Talisman Energy Canada	13	0.1%	13	0.1%
University of Calgary	12	0.1%	12	0.1%
West Fraser Mills Ltd.	--	--	10	0.1%
BowArk Energy Ltd.	6	0.0%	6	0.0%
Keyera Partnership	5	0.0%	5	0.0%
University of Alberta	5	0.0%	5	0.0%
Encana Corp	120	0.8%	--	--
Total Dispatchable	12,838	90.2%	15,456	97.5%
Total Non-dispatchable	1,398	9.8%	399	2.5%
Grand Total	14,236	100.0%	15,855	100.0%

2. Changes from 2014

2.1 Wind Offers into the Merit Order

Beginning April 1, 2015, AESO's new Dispatchable Wind Rule Changes took effect.³ Under the new rules, all wind generators are now required to offer their power into the energy market merit order similar to other generators in the province.

Wind generation which has always been part of the denominator for the MSOC calculation is now also included in the numerator. This has resulted in higher MSOC for pool participants with wind generation and has contributed to the increase in total dispatchable generation to 97.5%, up from 90.2% last year.

The following is a list of offer control by wind-powered generation in Alberta.

Table 3: Largest Wind Generators in Alberta

	Wind Offer Control	
	(MW)	%
TransAlta	414	28.9%
EDF EN Canada Development Inc.	300	20.9%
ENMAX	217	15.1%
Capital Power	150	10.5%
Suncor Energy Inc.	148	10.3%
NextEra Energy Resources, LLC	82	5.7%
Castle Rock Ridge LP	77	5.4%
Oldman 2 Wind Farm Ltd.	46	3.2%
Total	1,434	100.0%

2.2 Denominator

Alberta's total capacity (used as the denominator) increased by 1,619 MW (+11.4%) since the last MSOC assessment on February 23, 2014. This increase is largely due to the addition of the Shepard Energy Centre (873 MW), the Blackspring Ridge Wind Project (300 MW), and the Nabiye (170 MW) and Kearl (84 MW) gas cogeneration facilities. The Shepard Energy Centre, jointly owned by Capital Power and ENMAX, and the Blackspring Ridge Wind Project, jointly owned by EDF and Enbridge, are the largest respective gas and wind powered facilities constructed in Alberta to date. Both projects were commissioned in Q1 2015. The remainder of the increases are made up of numerous additions and small MC changes, less unit retirements all under 50 MW.

Units are included in offer control (and the denominator) as long as they are registered as active assets during the reference time. Units registered as active would still be required to make

³ Alberta Electric System Operator (AESO),
[http://www.aeso.ca/downloads/Notice_of_Filing_304_3_306_6_502_1\(1\).pdf](http://www.aeso.ca/downloads/Notice_of_Filing_304_3_306_6_502_1(1).pdf)

offers (even though they may not be available) and their lack of availability would be included in outage data published by the AESO.

The maximum capability of an asset used to calculate the denominator may not correspond to the “name plate” maximum capabilities as they would be typically viewed on the AESO’s “Current Supply/Demand” report. Instead, the denominator uses maximum capability as it is registered with the AESO for the purpose of submitting price-quantity pairs.

Table 4: Denominator 2015-04-01

Unit	2014 (MW)	2015 (MW)	Diff
BSR1 Blackspring Ridge	--	300	300
CRW1 Cowley Ridge	--	38	38
EGC1 Shepard	--	873	873
GEN5 Carson Creek	--	15	15
GEN6 Judy Creek	--	15	15
IOR2 Nabiye	--	170	170
IOR3 Kearl	--	84	84
NPC2 JL Landry	--	9	9
OWF1 Oldman 2 Wind Farm 1	--	46	46
WCD1 West Cadotte	--	20	20
Units Added (Units >=5 MW)	0	1,570	1,570
ST1 Sturgeon #1	8	--	-8
ST2 Sturgeon #2	8	--	-8
Units Retired (>=5 MW)	16	0	-16
ALP2 ALP	7	10	3
BCRK Bear Creek Cogen	58	64	6
CRWD Cowley Ridge Phase 1	10	38	28
EAGL Whitecourt Power	28	25	-3
EC04 EnCana Foster Creek	94	98	4
HMT1 ALP	30	45	15
KHW1 Kettles Hill Wind	70	63	-7
SCR2 Magrath	31	30	-1
TAB1 ENMAX Taber	85	81	-4
MC Changes (Units >=5 MW)	413	454	41
Units <5 MW	113	127	15
Unchanged Units >=5 MW	13,503	13,503	0
Ownership Transfer / Name Change >=5 MW	192	201	9
TOTAL (MW)	14,236	15,855	1,619

2.3 Appendix

The tables below detail the units for each company with offer control greater than 5 percent, as well as the affiliates of the market participant (as defined in Section 5(1)(a) of the Fair, Efficient, Open Competition Regulation) insofar as they were making offers to the energy merit order. Offers for import energy are not applicable to offer control contemplated by the FEOC regulation, and affiliates offering imports may not be included.

ATCO

ATCO Electric Ltd.
ATCO Power Canada Ltd.

ATCO

Asset	Offer Control (MW)
APS1 Scotford Cogen	195
BR3 Battle River #3	149
BR4 Battle River #4	155
BR5 Battle River #5	17
JOF1 Joffre #1	474
MKR1 Muskeg River	202
OMRH CUPC Oldman River	32
PH1 Poplar Hill #1	48
PR1 Primrose #1	100
RB1 Rainbow #1	30
RB2 Rainbow #2	40
RB3 Rainbow #3	20
RB5 Rainbow #5	50
RL1 Rainbow Lake #1	47
VVW1 Valley View 1	50
VVW2 Valley View 2	50
Grand Total	1,659

Capital Power

Capital Power GP Holdings Inc.
Halkirk I Wind Project LP

Capital Power

Asset	Offer Control (MW)
EGC1 Shepard	109
ENC1 Cloverbar #1	48
ENC2 Cloverbar #2	101
ENC3 Cloverbar #3	101
GN1 Genesee #1	19
GN2 Genesee #2	19
GN3 Genesee #3	233
HAL1 Halkirk Wind Power Facility	150
KH3 Keephills #3	232
SD5 Sundance #5	353
SD6 Sundance #6	357
Grand Total	1,722

ENMAX

Calgary Energy Centre No. 2 Inc.
 ENMAX Cavalier LP
 ENMAX Energy Corporation
 ENMAX Energy Corporation 12
 ENMAX Green Power Inc.
 ENMAX PPA Management Inc.
 ENMAX Shepard Service Inc.
 Kettles Hill Wind Energy Inc.

ENMAX

Asset	Offer Control (MW)
AKE1 McBride Lake Windfarm	73
BR5 Battle River #5	368
CAL1 CALP Gen #1	320
CRS1 Summit- Crossfield	48
CRS2 Summit- Crossfield	48
CRS3 Summit- Crossfield	48
EC01 Cavalier	120
EGC1 Shepard	764
KH1 Keephills #1	383
KH2 Keephills #2	383
KHW1 Kettles Hill Wind	63
TAB1 Enmax Taber	81
Grand Total	2,699

TransAlta

Canadian Hydro Developers, Inc.
 TransAlta Corporation
 TransAlta Energy Marketing Corp.

TransAlta

Asset	Offer Control (MW)
ARD1 Ardenville	68
BIG Bighorn Hydro	120
BOW1 Bow River Hydro	320
BRA Brazeau Hydro	350
BTR1 Blue Trail Wind	66
CR1 ARM2262 Castle River	39
CRW1 Cowley Ridge	38
GN3 Genesee #3	233
GWW1 GW Wind #1	71
IEW1 Summerview Phase 1	66
IEW2 Summerview Phase 2	66
KH1 Keephills #1	12
KH2 Keephills #2	12
KH3 Keephills #3	232
SCR1 Poplar Creek	376
SD4 Sundance #4	53
SD5 Sundance #5	53
SD6 Sundance #6	32
TAY1 Taylor Hydro 1	14
Grand Total	2,221

TransCanada

TransCanada Energy Ltd

TransCanada

Asset	Offer Control (MW)
BCR2 Bear Creek Cogen Plant	36
BCRK Bear Creek Cogen	64
GN2 Genesee #2	100
MKRC MacKay River Cogeneration Plant	197
SD1 Sundance #1	288
SD2 Sundance #2	288
SD3 Sundance #3	362
SD4 Sundance #4	353
SH1 Sheerness #1	390
SH2 Sheerness #2	390
TC01 Carseland Cogen	95
TC02 Redwater Cogen	46
Grand Total	2,609

The following table provides a breakdown of offer control by unit. The total for each unit is its maximum capability.

Unit - Control	MW
AFG1 APF Athabasca	67
Alberta Pacific Forest Industries	67
AKE1 McBride Lake Windfarm	73
ENMAX	73
ALP1 ALP	7
AltaGas Ltd.	7
ALP2 ALP	10
AltaGas Ltd.	10
ALS1 Air Liquide Scotford #1	96
Air Liquide Canada Inc.	96
ANC1 AB Newsprint	63
Alberta Newsprint Company	63
APS1 Scotford Cogen	195
ATCO	195
ARD1 Ardenville	68
TransAlta	68
BCR2 Bear Creek Cogen Plant	36
TransCanada	36
BCRK Bear Creek Cogen	64
TransCanada	64
BIG Bighorn Hydro	120
TransAlta	120
BOW1 Bow River Hydro	320
TransAlta	320
BR3 Battle River #3	149
ATCO	149
BR4 Battle River #4	155
ATCO	155
BR5 Battle River #5	385
ATCO	17
ENMAX	368
BRA Brazeau Hydro	350
TransAlta	350
BSR1 Blackspring Ridge	300
EDF EN Canada Development Inc.	300
BTR1 Blue Trail Wind	66
TransAlta	66

CAL1 CALP Gen #1	320
ENMAX	320
CCMH Cancarb Medicine Hat	42
Cancarb Ltd.	42
CHIN Chin Chute	15
Irrigation Canal Power Co-op Ltd.	15
CMH1 Medicine Hat #1	210
City of Medicine Hat	210
CNR5 CNRL Horizon	65
Canadian Natural Resources Ltd.	65
CR1 ARM2262 Castle River	39
TransAlta	39
CRR1 Enel Alberta Castle Rock Wind Farm	77
Castle Rock Ridge LP	77
CRS1 Summit- Crossfield	48
ENMAX	48
CRS2 Summit- Crossfield	48
ENMAX	48
CRS3 Summit- Crossfield	48
ENMAX	48
CRW1 Cowley Ridge	38
TransAlta	38
DAI1 52MW Turbo Generator	52
Daishowa-Marubeni Int. Ltd.	52
DKSN Dickson Dam	15
Algonquin Power Operating Trust	15
DRW1 Drywood	6
BowArk Energy Ltd.	6
EAGL Whitecourt Power	25
Whitecourt Power Ltd.	25
EC01 Cavalier	120
ENMAX	120
EC04 EnCana Foster Creek	98
Cenovus FCCL Ltd.	98
EGC1 Shepard	873
Capital Power	109
ENMAX	764
ENC1 Cloverbar #1	48
Capital Power	48
ENC2 Cloverbar #2	101
Capital Power	101
ENC3 Cloverbar #3	101
Capital Power	101

FNG1 Fort Nelson	73
Powerex Corp.	73
GEN5 Carson Creek	15
URICA Energy Real Time Ltd.	15
GEN6 Judy Creek	15
URICA Energy Real Time Ltd.	15
GN1 Genesee #1	400
Alberta Newsprint Company	100
Balancing Pool	281
Capital Power	19
GN2 Genesee #2	400
Balancing Pool	281
Capital Power	19
TransCanada	100
GN3 Genesee #3	466
Capital Power	233
TransAlta	233
GOC1 Gold Creek Facility	5
Maxim Power Corp.	5
GPEC Grande Prairie	27
Canadian Forest Products Ltd.	27
GWW1 GW Wind #1	71
TransAlta	71
HAL1 Halkirk Wind Power Facility	150
Capital Power	150
HMT1 ALP	45
AltaGas Ltd.	45
HRM H.R. Milner	144
Maxim Power Corp.	144
ICP1 Drops 4, 5, 6	7
Irrigation Canal Power Co-op Ltd.	7
IEW1 Summerview Phase 1	66
TransAlta	66
IEW2 Summerview Phase 2	66
TransAlta	66
IOR1 Mahkeses Central Plant	180
Imperial Oil Limited	180
IOR2 Nabiye	170
Imperial Oil Limited	170
JOF1 Joffre #1	474
ATCO	474
KH1 Keephills #1	395
ENMAX	383

TransAlta	12
KH2 Keephills #2	395
ENMAX	383
TransAlta	12
KH3 Keephills #3	463
Capital Power	231.5
TransAlta	231.5
KHW1 Kettles Hill Wind	63
Kettles Hill Wind Energy Inc.	63
ME02 Lethbridge Taber	8
Signalta Resources Limited	8
ME03 Lethbridge Burdett	7
Signalta Resources Limited	7
ME04 Lethbridge Coaldale	6
Signalta Resources Limited	6
MEG1 Christina Lake	202
MEG Energy Corp.	202
MKR1 Muskeg River	202
ATCO	202
MKRC MacKay River Cogeneration Plant	197
TransCanada	197
NEP1 Ghost Pine	82
NextEra Energy Resources, LLC	82
NPC1 Denis St. Pierre	11
Northstone Power Corp.	11
NPC2 JL Landry	9
Northstone Power Corp.	9
NPP1 Constellation	93
Exelon Corporation	93
NRG3 NRGreen Cogen	19
NRGreen Power Limited Partnership	19
NX01 Nexen Inc #1	120
Nexen Inc.	120
NX02 Nexen Inc. #2	220
Nexen Inc.	220
OMRH CUPC Oldman River	32
ATCO	32
OWF1 Oldman 2 Wind Farm 1	46
Oldman 2 Wind Farm Ltd.	46
PH1 Poplar Hill #1	48
ATCO	48
PR1 Primrose #1	100
ATCO	100

PW01 Minnehik-Buck Lake	5
Keyera Partnership	5
RB1 Rainbow #1	30
ATCO	30
RB2 Rainbow #2	40
ATCO	40
RB3 Rainbow #3	20
ATCO	20
RB5 Rainbow #5	50
ATCO	50
RL1 Rainbow Lake #1	47
ATCO	47
RYMD Raymond Reservoir	21
Irrigation Canal Power Co-op Ltd.	21
SCL1 Syncrude #1	100
Syncrude Canada Ltd.	100
SCR1 Poplar Creek	901
Suncor Energy Inc.	525
TransAlta	376
SCR2 Magrath	30
Suncor Energy Inc.	30
SCR3 Suncor Chin Chute	30
Suncor Energy Inc.	30
SCR4 Wintering Hills	88
Suncor Energy Inc.	88
SD1 Sundance #1	288
TransCanada	288
SD2 Sundance #2	288
TransCanada	288
SD3 Sundance #3	362
TransCanada	362
SD4 Sundance #4	406
TransAlta	53
TransCanada	353
SD5 Sundance #5	406
Capital Power	353
TransAlta	53
SD6 Sundance #6	389
Capital Power	357
TransAlta	32
SH1 Sheerness #1	390
TransCanada	390
SH2 Sheerness #2	390

TransCanada	390
TAB1 Enmax Taber	81
ENMAX	81
TAY1 Taylor Hydro 1	14
TransAlta	14
TC01 Carseland Cogen	95
TransCanada	95
TC02 Redwater Cogen	46
TransCanada	46
TLM2 Talisman Edson	13
Talisman Energy Canada	13
Total Gen. & SR	326
Dow Chemical Canada ULC	326
UOA1 UofA Generator	5
University of Alberta	5
UOC1 U of C Generator	12
University of Calgary	12
VVW1 Valley View 1	50
ATCO	50
VVW2 Valley View 2	50
ATCO	50
WCD1 West Cadotte	20
Genalta III GP Ltd.	20
WEY1 Steam Turbine 48MW	48
Weyerhaeuser Company Ltd.	48
WWD1 Weldwood	10
West Fraser Mills Ltd.	10
Grand Total	15,456



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