



19700 Janelia Farms Blvd
 Ashburn, VA 20147
 703-726-5500

Off-Air Television Reception Analysis at the Roaring Brook Wind Energy Project in Lewis County, New York

Comsearch was contracted by PPM Energy to identify all of the off-air television (TV) stations within a 100-mile radius of the Roaring Brook Wind Energy Project (the Project) in Lewis County, New York. Off-air stations are TV broadcasters that transmit signals that can be received directly on a TV receiver from terrestrially located broadcast facilities. Comsearch examined the coverage of the off-air TV stations and the communities in the area that could potentially have degraded TV reception because of the location of the proposed wind turbines. The Project site boundaries and local communities are plotted on Figure 1 of this report. Table 1 lists the off-air TV stations within 100 miles of the Project site. Figure 2 shows all of the TV stations within a 100-mile radius of the Project site.

Table 1. List of Off-Air TV Channels within 100 Miles of the Roaring Brook Wind Energy Project Site

Location		Call Sign	Channel	Service	Status	Distance
UTICA	NY	WKTV	2	TV	LIC	53.50 mi
SYRACUSE	NY	WSTM-TV	3	TV	LIC	57.95 mi
PRESCOTT	ON	CKWS-TV-2	3	DT	APP	78.27 mi
HERKIMER	NY	W04AE	4	TX	LIC	56.56 mi
GLENS FALLS	NY	W04BD	4	TX	CP	97.63 mi
SCHOHARIE, ETC.	NY	W04AJ	4	TX	LIC	96.07 mi
UTICA	NY	881121KL	4	TA	-	51.32 mi
SYRACUSE	NY	WTVH	5	TV	LIC	57.11 mi
SYRACUSE	NY	WTVH	5	TV	CP	57.12 mi
WESTVALE	NY	WMBO-LP	6	TX	CP	52.26 mi
DESERONTO	ON	CJOHTV6	6	TV	LIC	78.93 mi
NORTH CREEK, ETC.	NY	W07BH	7	TX	LIC	80.30 mi
SCHROON LAKE	NY	W07BI	7	TX	LIC	95.45 mi
ITHACA	NY	W07BJ	7	TX	LIC	97.43 mi
CARTHAGE	NY	WWNY-TV	7	TV	LIC	18.39 mi
SYRACUSE-DEWITT	NY	W07BA	7	TX	LIC	55.09 mi
SYRACUSE	NY	NEW	8	LD	APP	52.26 mi
NORTH CREEK, ETC.	NY	W09AZ	9	TX	LIC	80.30 mi
SCHROON LAKE	NY	W09BB	9	TX	LIC	95.45 mi
SYRACUSE	NY	WSYR-TV	9	TV	LIC	56.05 mi

GOUVERNEUR	NY	NEW	9	TX	APP	44.18 mi
NORTH CREEK, ETC.	NY	W11AW	11	TX	LIC	80.30 mi
SYRACUSE	NY	WONO-CA	11	CA	LIC	52.26 mi
UTICA, ETC.	NY	WPNY-LP	11	LD	CP	44.28 mi
UTICA, ETC.	NY	WPNY-LP	11	TX	LIC	44.28 mi
KINGSTON	ON	CKWSTV	11	TV	APP	51.72 mi
NEWCOMB	NY	W12BG	12	TX	LIC	74.26 mi
ROME	NY	W12BZ	12	CA	LIC	34.89 mi
SYRACUSE	NY	NEW	12	LD	APP	52.26 mi
ONEIDA	NY	W13BR	13	CA	LIC	43.88 mi
OGDENSBURG	NY	W13DG	13	TX	CP	70.26 mi
SYRACUSE	NY	WBLZ-LP	13	CA	LIC	52.26 mi
MASSENA	NY	W14BU	14	TX	LIC	90.70 mi
SYRACUSE	NY	WSTQ-LP	14	TX	LIC	52.26 mi
SYRACUSE	NY	WSPX	14	DN	APP	34.91 mi
ONEONTA	NY	WISF-LP	15	TX	LIC	92.23 mi
ONEONTA	NY	WISF-LP	15	TA	-	90.47 mi
ONEIDA	NY	WTKO-LP	15	TX	LIC	43.88 mi
BELLEVILLE	ON	CBLFT13	15	TV	LIC	89.80 mi
WATERTOWN	NY	WPBS-TV	16	TV	LIC	12.47 mi
ITHACA	NY	W16AX	16	CA	LIC	98.37 mi
WATERTOWN	NY	WPBS-TV	16	TV	CP	12.50 mi
SYRACUSE	NY	WSYR-TV	17	DT	LIC	56.05 mi
NORWOOD	NY	WNPI-TV	18	TV	LIC	66.41 mi
NORWOOD	NY	WNPI-TV	18	TV	CP	66.42 mi
UTICA	NY	W12BZ	18	CA	CP MOD	44.28 mi
SYRACUSE	NY	WSYT	19	DS	STA	63.78 mi
SYRACUSE	NY	WSYT	19	DT	LIC	63.78 mi
WATERTOWN	NY	WTKJ-LP	19	TX	CP	20.74 mi
KINGSTON	ON	-	19	TA	-	57.38 mi
MASSENA	NY	W20BA	20	TX	LIC	90.70 mi
ITHACA	NY	W20BT	20	TX	LIC	90.64 mi
UTICA	NY	WUTR	20	TV	LIC	44.28 mi
ITHACA	NY	WNYI	20	DM	APP	98.39 mi
OGDENSBURG	NY	NEW	20	TX	APP	66.05 mi
UTICA	NY	WUTR	20	TV	APP	44.28 mi
WATERTOWN	NY	WWTI	21	DS	STA	13.41 mi
WATERTOWN	NY	WWTI	21	DT	LIC	13.41 mi
GLOVERSVILLE	NY	W21CP	21	TX	LIC	77.68 mi
SYRACUSE	NY	WTVU-LP	22	CA	LIC	52.26 mi
SYRACUSE	NY	WTVU-LP	22	CA	APP	52.26 mi
UTICA	NY	NEW	22	LD	APP	44.32 mi
GANANOQUE	ON	NEW-DT	22	DT	APP	51.57 mi
NORWOOD	NY	WNPI-TV	23	DS	STA	66.41 mi
NORWOOD	NY	WNPI-TV	23	DT	LIC	66.41 mi
SYRACUSE	NY	WCNY-TV	24	TV	LIC	57.95 mi
TUPPER LAKE	NY	W25AT	25	TX	LIC	65.19 mi
SYRACUSE	NY	WCNY-TV	25	DT	LIC	57.95 mi

TUPPER LAKE	NY	W25AT	25	LD	APP	65.19 mi
PRESCOTT	ON	-	26	TA	-	70.34 mi
BELLEVILLE	ON	NEW-DT	26	DT	APP	93.04 mi
UTICA	NY	WVVC-LP	27	TX	LIC	50.74 mi
UTICA	NY	WFXV	27	DT	CP	46.62 mi
UTICA	NY	WFXV	27	DS	STA	44.28 mi
ITHACA	NY	NEW	27	LD	APP	90.64 mi
MASSENA	NY	WNYF-LP	28	TX	LIC	90.70 mi
WATERTOWN	NY	WNYF-CA	28	CA	LIC	20.91 mi
SCHOHARIE, ETC.	NY	W28DE-D	28	LD	CP	96.07 mi
GANANOQUE	ON	-	28	TA	-	51.57 mi
BURLINGTON	NY	W29BJ	29	TX	LIC	72.14 mi
UTICA	NY	WKTV	29	DT	LIC	53.50 mi
SYRACUSE	NY	W30AJ	30	TX	LIC	52.34 mi
UTICA	NY	WUTR	30	DS	STA	44.28 mi
UTICA	NY	WUTR	30	DT	LIC	44.28 mi
BURLINGTON, ETC.	NY	W31BP	31	TX	LIC	72.11 mi
BURLINGTON, ETC.	NY	W31BP	31	LD	CP	72.11 mi
BROCKVILLE	ON	NEW-DT	31	DT	APP	62.20 mi
AUBURN	NY	WNNY-LP	32	TX	CP	74.60 mi
KINGSTON	ON	CBLFT14	32	TV	LIC	59.21 mi
UTICA	NY	WFXV	33	TV	LIC	46.60 mi
WATERTOWN	NY	WBQZ-LP	34	TX	LIC	29.74 mi
LAKE PLACID	NY	960910KE	34	TV	APP	88.37 mi
LAKE PLACID	NY	960910KE	34	TA	-	90.66 mi
WATERTOWN	NY	WBQZ-LP	34	TX	CP	25.41 mi
SYRACUSE	NY	WOBX-LP	35	TX	LIC	52.26 mi
CARTHAGE	NY	WWNY-TV	35	DS	STA	18.97 mi
SYRACUSE	NY	WOBX-LP	35	CA	LIC	52.26 mi
UTICA	NY	W53AM	35	LD	APP	44.28 mi
WATERTOWN	NY	NEW	35	LD	APP	18.39 mi
CARTHAGE	NY	WWNY-TV	35	DT	LIC	18.39 mi
MASSENA	NY	W36BN	36	TX	LIC	90.70 mi
SYRACUSE	NY	NEW	36	LD	APP	52.26 mi
SMITHS FALLS	ON	CKWS-TV-3	36	TV	OPER	93.10 mi
KINGSTON	ON	NEW-DT	36	DT	APP	57.38 mi
SYRACUSE	NY	W38CY	38	TX	LIC	57.59 mi
SYRACUSE	NY	W38CY	38	LD	APP	57.60 mi
KINGSTON	ON	CICOTV38	38	TV	APP	59.21 mi
AMSTERDAM	NY	-	39	TA	-	89.15 mi
OGDENSBURG	NY	NEW	39	TX	APP	69.03 mi
ONEIDA	NY	NEW	39	LD	APP	43.88 mi
DEWITT	NY	WIXT-CA	40	CA	LIC	53.56 mi
SARANAC LAKE	NY	NEW	40	NM	GRANT	65.17 mi
SARANAC LAKE	NY	WCWF	40	TV	CP	65.17 mi
UTICA	NY	WVVC-LP	40	TX	APP	50.44 mi
WATERTOWN	NY	WPBS-TV	41	DT	LIC	12.50 mi
COBLESKILL	NY	WUCB-LP	41	TX	LIC	91.11 mi

ONEONTA	NY	890824KE	42	TA	-	90.47 mi
SCHNECTADY	NY	WNGX-LP	42	TX	LIC	97.83 mi
SCHENECTADY	NY	WNGX-LP	42	LD	CP	97.83 mi
SYRACUSE	NY	NEW	42	LD	APP	52.26 mi
SYRACUSE	NY	WNYS-TV	43	TV	LIC	63.77 mi
SYRACUSE	NY	WNYS-TV	44	DT	LIC	63.78 mi
CRYSTAL DALE	NY	NEW	45	TX	APP	18.99 mi
SYRACUSE	NY	NEW	45	LD	APP	52.26 mi
BROCKVILLE	ON	-	45	TA	-	62.20 mi
PRESCOTT	ON	-	45	TA	-	78.27 mi
POTSDAM	NY	NEW	46	TX	APP	71.88 mi
UTICA	NY	W46DY	46	TX	CP	48.61 mi
BLUE MOUNTAIN LAKE	NY	NEW	46	TX	APP	61.96 mi
WATERTOWN	NY	WLOT-LP	46	CA	LIC	23.94 mi
SYRACUSE	NY	W30AJ	46	TX	CP	57.96 mi
GLENS FALLS	NY	W47CM	47	TX	LIC	97.65 mi
SYRACUSE	NY	WTVH	47	DS	STA	57.12 mi
GLENS FALLS	NY	W47CM	47	LD	APP	97.65 mi
SYRACUSE	NY	WTVH	47	DT	LIC	57.12 mi
AUBURN	NY	W48AO	48	TX	LIC	71.43 mi
OGDENSBURG	NY	NEW	48	TX	APP	69.03 mi
GLOVERSVILLE	NY	WFNY-LD	48	LD	CP	75.07 mi
GLENS FALLS	NY	NEW	48	LD	APP	97.63 mi
KINGSTON	ON	-	48	TA	-	57.38 mi
KINGSTON	ON	NEW-DT	48	DT	APP	57.38 mi
GLOVERSVILLE	NY	WFNY-CA	49	CA	LIC	75.07 mi
SYRACUSE	NY	WNDR-LP	49	CA	LIC	54.50 mi
DESERONTO	ON	CJOH-TV-6	49	DT	APP	78.93 mi
AMSTERDAM	NY	WYPX	50	DT	LIC	87.58 mi
WATERTOWN	NY	WWTI	50	TV	LIC	13.41 mi
UTICA	NY	W53AM	50	LD	CP	44.28 mi
SYRACUSE	NY	WHSU-CA	51	CA	LIC	52.26 mi
OGDENSBURG	NY	NEW	51	TX	APP	69.03 mi
UTICA	NY	W51CV	51	TX	LIC	44.27 mi
UTICA	NY	W51CV	51	LD	APP	44.27 mi
BELLEVILLE	ON	CICO-TV-53	51	DT	APP	89.80 mi
MORAVIA	NY	WNNY-LP	52	TX	LIC	74.60 mi
ITHACA	NY	WNYI	52	TV	APP	63.69 mi
ITHACA	NY	WNYI	52	TV	LIC	98.39 mi
BELLEVILLE	ON	NEW-DT	52	DT	APP	89.80 mi
SMITHS FALLS	ON	NEW-DT	52	DT	APP	93.21 mi
UTICA	NY	W53AM	53	TX	LIC	44.28 mi
BELLEVILLE	ON	CICOTV53	53	TV	LIC	89.80 mi
AUBURN	NY	W54AK	54	TX	LIC	71.43 mi
SYRACUSE	NY	WSTM-TV	54	DS	STA	57.95 mi
PHILADELPHIA	NY	WTKJ-LP	54	TX	CP	36.83 mi
PHILADELPHIA	NY	WTKJ-LP	54	TX	CP MOD	28.82 mi
SYRACUSE	NY	WSTM-TV	54	DT	LIC	57.95 mi

PHILADELPHIA	NY	WTKJ-LP	54	TX	CP MOD	20.74 mi
LAKE PLACID	NY	W55AI	55	TX	LIC	90.74 mi
SYRACUSE	NY	WSPX-TV	56	TV	LIC	34.91 mi
COBLESKILL	NY	WYBN-LP	57	TX	LIC	91.11 mi
BELLEVILLE	ON	CBLFT-13	57	DT	APP	89.80 mi
ELGIN	ON	-	58	TA	-	67.85 mi
UTICA	NY	W59AU	59	TX	LIC	44.32 mi
UTICA	NY	960408KE	59	TV	APP	44.32 mi
UTICA	NY	W59AU	59	TA	-	45.68 mi
SYRACUSE, ETC.	NY	WMBO-LP	60	TX	LIC	54.50 mi
SARANAC LAKE	NY	951106KE	61	TV	APP	65.17 mi
SARANAC LAKE	NY	951106KH	61	TV	APP	65.17 mi
OGDENSBURG	NY	NEW	61	TX	APP	69.03 mi
ONEONTA	NY	DW63AE	63	TX	LIC	92.60 mi
BELLEVILLE	ON	-	64	TA	-	93.04 mi
KINGSTON	ON	CICO-TV-38	64	DT	APP	59.21 mi
KINGSTON	ON	CBLFT-DT-14	65	DT	APP	59.21 mi
KINGSTON	ON	NEW-DT	66	DT	APP	51.72 mi
ILION	NY	890629KE	67	TA	-	63.59 mi
SYRACUSE	NY	WSYT	68	TV	LIC	63.77 mi
UNION SPRINGS, ETC.	NY	W69AN	69	TX	LIC	77.99 mi
BELLEVILLE	ON	-	69	TA	-	93.04 mi
KINGSTON	ON	CKWS-TV	69	DT	APP	51.72 mi

TV – Normal Broadcast Station

CA –Full Service Low Power Television Station

DS– Digital Service Television, Temporary Operation, STA Operation

DT – Digital Television Broadcast Station

DM – Digital Television Broadcast Station Modification

DR– Indicates Station has Applied for FCC Rule Making

DS – Digital Television Broadcast Station Operating Temporarily

GRA – Indicates Rule Making was granted by FCC

LP – Low Power Television Broadcast Station

TX – Translator Television Broadcast Station

TA – Translator Television Broadcast Station Application

LIC – Licensed and operational station

CP – License approved construction permit granted

APP – License application, not yet operational

STA – Special transmit authorization, usually granted by FCC for temporary operation

PA – Pennsylvania

WV – West Virginia

VA – Virginia

MD – Maryland

OH – Ohio

DC – District of Columbia

LD – Low Power Digital Broadcast Station

GRANT – Indicates Rule Making was granted by the FCC

CPMOD – Construction Permit for Modification of an existing licensed station

The most likely TV stations that will produce off-air coverage to the Lewis County area will be those stations at a distance of 40 miles or less. The stations within 40 miles are listed Table 2 below. There are 22 entries in Table 2 and of these entries, 11 are operational TV stations. One of these TV stations is a translator with limited programming and three are low power stations with limited range but full-service programming. There are four full-power Analog TV stations and three Digital TV stations servicing the area.

The off-air TV available to the local communities is extremely limited since there are only four full-power analog and three digital stations available. There are also four low-power stations available, one translator and three full-service low-power stations. Based on the low number of TV channels available and the difficulty of most communities to receive the signals it is not expected that the off-air television stations available in the area are the primary mode of television service for the local communities. Because of this, TV cable service, where available, and/or direct satellite broadcast (DBS) are probably the dominant delivery mode of TV service to the Project site's surrounding communities. These services will be unaffected by the presence of the Project.

Table 2. Off-Air TV Channels within 40 Miles of the Roaring Brook Wind Power Project

WATERTOWN	NY	WPBS-TV	16	TV	LIC	12.47 mi
WATERTOWN	NY	WPBS-TV	16	TV	CP	12.50 mi
WATERTOWN	NY	WPBS-TV	41	DT	LIC	12.50 mi
WATERTOWN	NY	WWTI	21	DS	STA	13.41 mi
WATERTOWN	NY	WWTI	21	DT	LIC	13.41 mi
WATERTOWN	NY	WWTI	50	TV	LIC	13.41 mi
CARTHAGE	NY	WWNY-TV	7	TV	LIC	18.39 mi
WATERTOWN	NY	NEW	35	LD	APP	18.39 mi
CARTHAGE	NY	WWNY-TV	35	DT	LIC	18.39 mi
CARTHAGE	NY	WWNY-TV	35	DS	STA	18.97 mi
CRYSTAL DALE	NY	NEW	45	TX	APP	18.99 mi
WATERTOWN	NY	WTKJ-LP	19	TX	CP	20.74 mi
PHILADELPHIA	NY	WTKJ-LP	54	TX	CP MOD	20.74 mi
WATERTOWN	NY	WNYF-CA	28	CA	LIC	20.91 mi
WATERTOWN	NY	WLOT-LP	46	CA	LIC	23.94 mi
WATERTOWN	NY	WBQZ-LP	34	TX	CP	25.41 mi
PHILADELPHIA	NY	WTKJ-LP	54	TX	CP MOD	28.82 mi
WATERTOWN	NY	WBQZ-LP	34	TX	LIC	29.74 mi
ROME	NY	W12BZ	12	CA	LIC	34.89 mi
SYRACUSE	NY	WSPX	14	DN	APP	34.91 mi
SYRACUSE	NY	WSPX-TV	56	TV	LIC	34.91 mi
PHILADELPHIA	NY	WTKJ-LP	54	TX	CP	36.83 mi

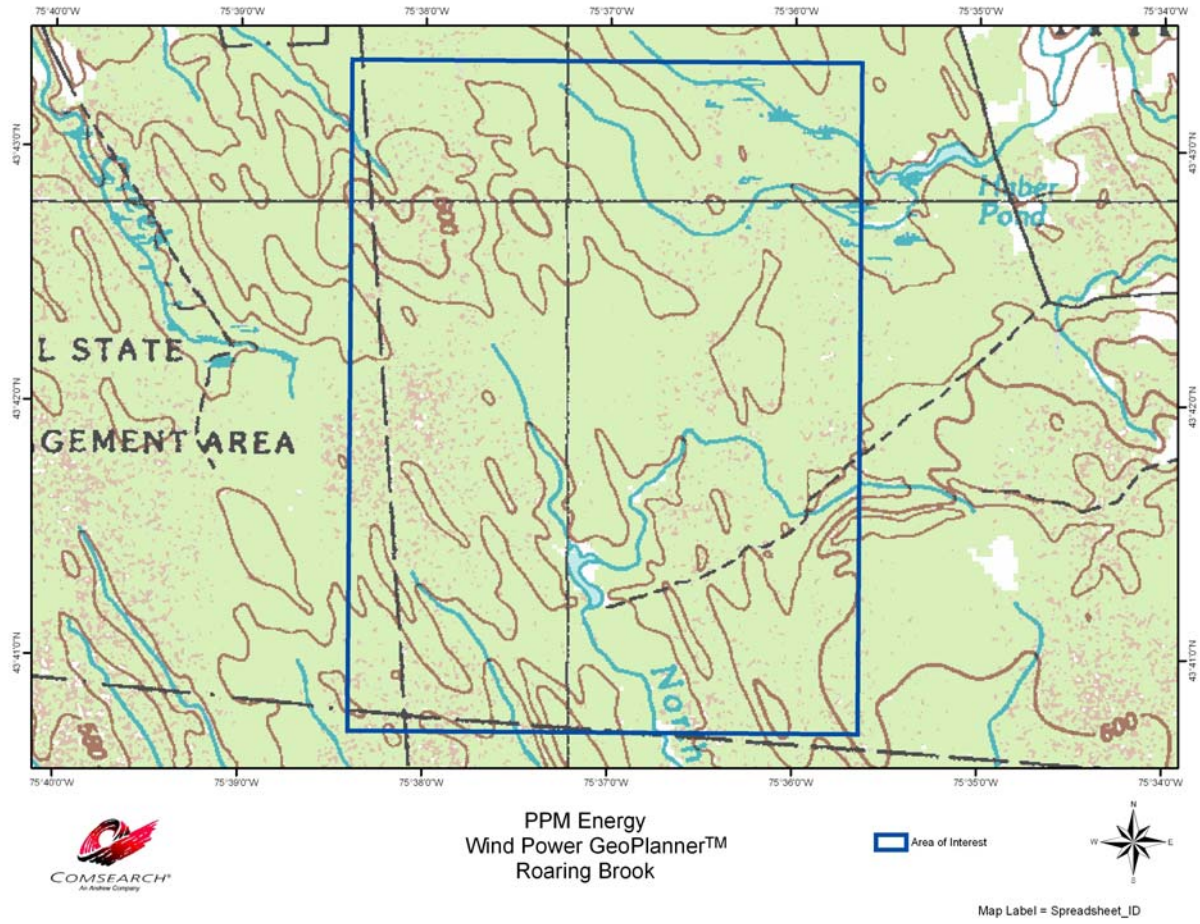


Figure 1. Roaring Brook Wind Power Project Boundaries and Local Communities

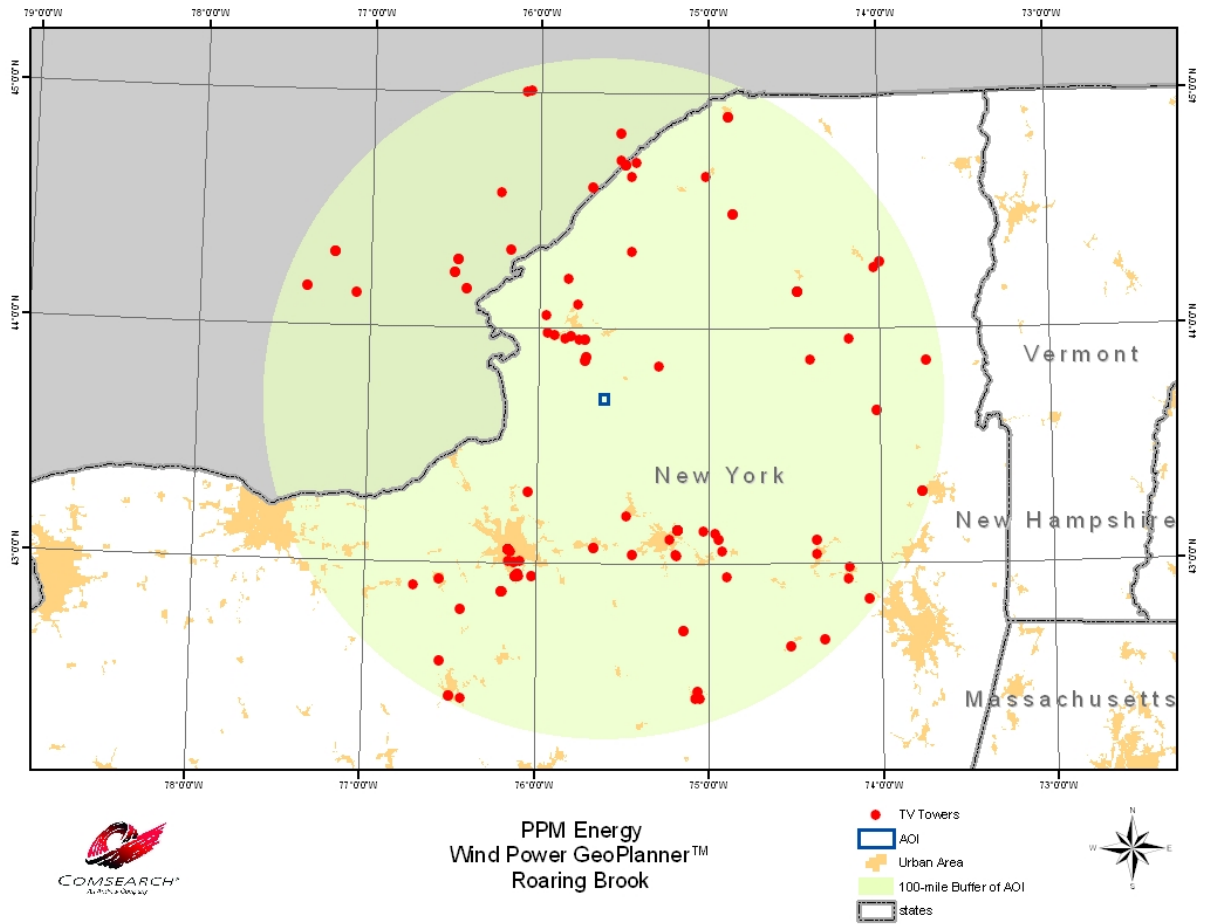


Figure 2. TV Stations within 100 Miles of the Roaring Brook Wind Energy Project