Oyen Wind Power Plant and Substation Combined Application

Submitted by:

RES Oyen Wind LP, as represented by its general partner, RES Oyen Wind GP Corp. (the Proponent), a wholly owned subsidiary of Renewable Energy Systems Canada Inc.

Submitted to:

Alberta Utilities Commission

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ATTACHMENTS:

ATTACHMENT A Certificate of Incorporation

ATTACHMENT B Keyhole Markup Language (kml/kmz)

ATTACHMENT C Figures and Mapbook

ATTACHMENT D Conceptual Layout of the Transmission Line and Interconnection

ATTACHMENT E Emergency Response Plan

ATTACHMENT F Shadow Flicker Assessment

ATTACHMENT G Environmental Evaluation

ATTACHMENT H Environmental Protection Plan

ATTACHMENT I Conceptual Conservation and Reclamation Plan

ATTACHMENT J Noise Impact Assessment

ATTACHMENT K AEPA Referral Report

ATTACHMENT L Historic Resources Act Approval

ATTACHMENT M Participant Involvement Program

ATTACHMENT N Functional Specification RESC Oyen Wind Connection

WP1)

State the approvals that are being applied for from the AUC and describe the power plant and collector system, including the number of wind-powered generators (or turbines) and their make, model, the nominal capability of each wind-powered generator in MW and the total capability of the power plant in MW. If the vendors have not been selected or the equipment has not been finalized, provide:

- The total capability of the power plant in MW.
- The anticipated maximum hub height and maximum rotor-swept area of the individual turbines.

RES Oyen Wind LP, as represented by its general partner, RES Oyen Wind GP Corp. (the Proponent), a wholly owned subsidiary of Renewable Energy Systems Canada Inc. hereby applies to the Alberta Utilities Commission (AUC) for approval to construct and operate the Oyen Wind Power Project (the Project) pursuant to Sections 11 and 19 of the *Hydro and Electric Energy Act*, RSA 2000, c H-16 (HEEA). This application is made subject to all applicable provisions of HEEA and the *Alberta Utilities Commission Act*, SA 2007, c A-37.2 as well as any regulations, orders, or Commission rules made pursuant to those acts.

The total capacity of the Project will be 466 megawatt (MW) constructed in two phases. Phase 1 will include a maximum of 45 turbines for a generation capacity of 250 MW and Phase 2 will include a maximum of 38 turbines for a generation capacity of 216 MW. The Proponent has designed the Project to be compliant with a turbine of 120 m hub height and 85 m blades. The maximum rotor-swept area is 22,700 m². The Proponent will continue to assess turbine models and may select a turbine of a shorter hub height and blade length.

WP2)

Provide a list of existing approvals for facilities directly affected by this project, if any.

Not Applicable. The Project is not expected to directly affect any existing facilities.

WP3)

Provide details of the project ownership structure, and if applicable, the name of the project operator. Confirm that the applicant is a qualified owner.

RES Oyen Wind LP, as represented by its general partner, RES Oyen Wind GP Corp. (the Proponent), is a wholly owned subsidiary of Renewable Energy Systems Canada Inc. The Proponent, acting through its general partner, is a qualified owner as demonstrated by the Certificate of Incorporation included as Attachment A.

WP4)

For a municipality or a subsidiary of a municipality to hold an interest in a generating unit, provide documentation confirming compliance with Section 95 of the Electric Utilities Act.

Not applicable.

WP5)

Describe the location of the project:

- Provide the legal description of the proposed power plant site (legal subdivision [LSD], section, township, range, meridian and/or plan, block, lot, municipal address for urban parcels) and connection point, if applicable.
- Provide the longitude and latitude coordinates for the centre of each structure supporting a wind-powered generator.
- Provide a Keyhole Markup Language (.kml/.kmz) file that contains the geographic data of each of the major components, including wind turbine locations, substation locations and project boundary of the proposed power plant. This file should reflect the information shown on the drawings and maps submitted to address information requirement WP6.

The Project will be located approximately 8 kilometres (km) north of Oyen, Alberta within portions of Townships 28 and 29, Ranges 3 and 4, west of the fourth meridian (W4M). The legal description of the quarter sections hosting the Project footprint are summarized and provided in Table 5.1 and include 147 quarter sections of land. The Project substation will be located in the SW quarter of Section 10, Township 29, Range 04, W4M. A .kml file is provided in Attachment B.

ATCO Electric Ltd. (ATCO) will file a separate application for an approximately 5 km transmission line to connect the Project to the existing 240 kV transmission line owned and operated by ATCO to the west of the Project Boundary.

	Quarter	Section	Township	Range	Meridian
1	NW	30	29	4	4
2	SE	2	29	4	4
3	SE	30	29	3	4
4	SW	2	29	4	4
5	NW	2	29	4	4
6	NE	2	29	4	4
7	SW	30	29	3	4
8	SE	18	29	3	4
9	SW	18	29	3	4
10	NE	25	29	5	4
11	SW	25	29	5	4
12	NW	25	29	5	4
13	SE	26	29	5	4
14	SE	14	29	4	4
15	NE	30	29	4	4
16	SE	30	29	4	4
17	SE	23	29	4	4
18	SW	23	29	4	4
19	NE	23	29	4	4
20	NE	19	29	4	4

	Quarter	Section	Township	Range	Meridian
21	NW	23	29	4	4
22	SE	19	29	4	4
23	NW	12	29	4	4
24	SE	12	29	4	4
25	NE	12	29	4	4
26	NW	6	29	3	4
27	SE	8	29	3	4
28	NE	6	29	3	4
29	NE	8	29	3	4
30	NE	7	29	3	4
31	SE	7	29	3	4
32	NW	8	29	3	4
33	NE	19	29	3	4
34	NW	35	28	4	4
35	NE	35	28	4	4
36	SE	15	29	4	4
37	SW	14	29	4	4
38	NW	14	29	4	4
39	SW	13	29	4	4
40	SW	19	29	3	4
41	NW	26	28	4	4
42	SW	35	28	4	4
43	NE	20	29	4	4
44	NW	21	29	4	4
45	SW	29	29	4	4
46	SE	29	29	4	4
47	SE	34	28	3	4
48	SW	10	29	4	4
49	NE	10	29	4	4
50	NE	9	29	4	4
51	SE	9	29	4	4
52	SE	10	29	4	4
53	NW	10	29	4	4
54	SE	17	29	3	4
55	SW	24	29	4	4
56	NW	24	29	4	4
57	NE	24	29	4	4
58	NE	13	29	4	4
59	SE	24	29	4	4
60	SE	13	29	4	4
61	NE	17	29	3	4
62	NW	17	29	3	4

	Quarter	Section	Township	Range	Meridian
63	SE	9	29	3	4
64	SE	10	29	3	4
65	SW	10	29	3	4
66	NE	9	29	3	4
67	NW	9	29	3	4
68	NE	16	29	3	4
69	NW	16	29	3	4
70	SE	26	28	4	4
71	SW	26	28	4	4
72	SW	35	28	3	4
73	SE	35	28	3	4
74	NW	35	28	3	4
75	NE	35	28	3	4
76	NW	36	28	3	4
77	SW	25	28	4	4
78	NW	36	28	4	4
79	SE	36	28	4	4
80	SW	36	28	4	4
81	NE	36	28	4	4
82	SE	25	28	4	4
83	NE	19	28	3	4
84	NW	19	28	3	4
85	NE	24	28	4	4
86	NE	22	28	3	4
87	NE	23	28	3	4
88	SW	34	28	3	4
89	NW	27	28	3	4
90	NW	22	28	3	4
91	NW	23	28	3	4
92	NE	15	29	4	4
93	SE	22	29	4	4
94	SW	22	29	4	4
95	NW	15	29	3	4
96	SW	2	29	3	4
97	NE	15	29	3	4
98	SE	28	29	3	4
99	SW	27	29	3	4
100	SW	11	29	3	4
101	NE	2	29	3	4
102	NW	3	29	3	4
103	NE	34	28	3	4
104	NW	2	29	3	4

	Quarter	Section	Township	Range	Meridian
105	NE	18	29	3	4
106	SW	22	29	3	4
107	SE	28	28	3	4
108	NW	23	29	3	4
109	SW	23	29	3	4
110	NW	22	29	3	4
111	SE	22	29	3	4
112	NW	34	28	3	4
113	NE	33	28	3	4
114	SE	33	28	3	4
115	NE	28	28	3	4
116	NW	22	29	4	4
117	S	15	29	3	4
118	NE	20	29	3	4
119	SE	21	29	3	4
120	NE	21	29	3	4
121	NW	20	29	3	4
122	NW	21	29	3	4
123	SW	28	29	3	4
124	SW	21	29	3	4
125	S	15	29	3	4
126	NW	14	29	3	4
127	NW	10	29	3	4
128	SE	27	29	3	4
129	NE	3	29	3	4
130	NE	10	29	3	4
131	SW	27	28	3	4
132	SW	26	29	3	4
133	NW	5	29	3	4
134	NE	5	29	3	4
135	NE	21	28	3	4
136	SW	21	29	4	4
137	SE	21	29	4	4
138	SE	19	29	3	4
139	NE	22	29	4	4
140	SW	20	29	3	4
141	SW	7	29	3	4
142	SW	1	29	4	4
143	NW	1	29	4	4
144	NE	1	29	4	4
145	NW	7	29	3	4
146	SW	31	28	3	4

	Quarter	Section	Township	Range	Meridian
147	SE	6	29	3	4
-					

Notes: NE = northeast; NW = northwest; SE = southeast; SW = southwest; W4M = West of the Fourth Meridian.

The longitude and latitude coordinates for the centre of each turbine location are provided in Table 5.2.

Table 5.2: Wind Turbine Coordinates for the Oyen Wind Power Project

Turbine ID	Latitude (dd mm ss.ss)	Longitude (ddd mm ss.ss)
A51	51 26 25.47974764N	110 21 38.27166086W
T1	51 30 35.21802163N	110 35 41.01895726W
T2	51 30 46.89425474N	110 35 19.69693567W
T3	51 30 47.02351785N	110 33 15.54972050W
T4	51 30 21.59443056N	110 33 02.25952570W
T5	51 30 00.52595624N	110 33 11.95788271W
Т6	51 29 37.84024194N	110 33 13.52789295W
Τ7	51 29 42.58272686N	110 28 50.14361531W
Т8	51 29 54.63522238N	110 29 31.78876154W
Т9	51 30 01.89844018N	110 27 48.22812341W
T10	51 29 02.55322396N	110 25 44.88569171W
T11	51 27 54.74425869N	110 30 24.85989027W
T12	51 28 07.50582224N	110 28 49.15022133W
T13	51 28 05.72041684N	110 29 32.34334875W
T14	51 29 53.69298802N	110 23 09.90464047W
T15	51 27 19.52912942N	110 27 57.98504513W
T16	51 27 47.91862657N	110 26 14.21586170W
T17	51 29 51.66199488N	110 26 13.38686575W
T18	51 26 38.00590017N	110 27 38.62965136W
T19	51 27 14.48061541N	110 27 09.13333868W
T20	51 28 11.60871824N	110 25 52.98508162W
T21	51 30 46.95970661N	110 34 25.48300059W
T22	51 27 13.22031800N	110 20 55.89622671W
T23	51 26 48.49011804N	110 26 35.46078744W
T24	51 27 02.96807736N	110 19 42.93998376W
T25	51 27 23.79338038N	110 20 19.00878255W
T26	51 25 21.38310140N	110 27 28.66121229W
T27	51 25 14.87938151N	110 25 44.39808457W
T28	51 27 43.12174125N	110 25 00.11879539W
T29	51 24 39.64767195N	110 22 00.09125258W
T30	51 24 39.89088143N	110 25 50.48786347W
T31	51 26 04.07621830N	110 25 21.63035697W
T32	51 26 57.61834935N	110 24 49.14574618W
T33	51 27 24.46546915N	110 24 20.10866516W
T34	51 28 32.24992039N	110 24 27.66782521W
T35	51 27 32.17729158N	110 23 17.86642423W
T36	51 28 04.84449521N	110 23 25.04834970W

Turbine ID	Latitude (dd mm ss.ss)	Longitude (ddd mm ss.ss)
T37	51 28 56.98538509N	110 23 48.46078060W
T38	51 29 26.47335463N	110 23 35.57489479W
T39	51 29 51.35737701N	110 23 52.66998275W
T40	51 30 35.14454473N	110 24 41.68576961W
T41	51 24 50.65015815N	110 24 47.30205532W
T42	51 28 35.26187940N	110 23 04.32247945W
T43	51 26 03.68726598N	110 21 07.55366361W
T44	51 25 02.74013716N	110 21 34.93234065W
T45	51 24 49.93991922N	110 20 48.97664326W
T46	51 24 52.90900152N	110 19 44.32804863W
T47	51 24 52.71582672N	110 19 05.24616332W
T48	51 25 34.39084731N	110 21 36.91349051W
T49	51 25 11.27715602N	110 20 49.81158708W
T50	51 25 32.30112874N	110 20 46.71588835W
T52	51 26 29.14300760N	110 20 52.22384889W
T53	51 26 22.24509078N	110 20 11.37563289W
T54	51 26 02.32970264N	110 19 47.29891523W
T55	51 26 08.45994327N	110 18 58.93942310W
T56	51 26 32.66720329N	110 19 42.65914615W
T57	51 26 24.22036286N	110 17 57.89492405W
T58	51 28 07.74498047N	110 21 39.27852230W
T59	51 27 19.39977384N	110 26 00.73228683W
T60	51 26 29.34050585N	110 25 44.51731109W
T62	51 27 17.18625844N	110 19 04.95623856W
T63	51 27 43.53033602N	110 20 57.84869134W
T64	51 27 39.49932057N	110 19 45.87593384W
T65	51 28 59.51264330N	110 22 40.74125416W
T66	51 29 30.29085409N	110 22 33.45380085W
T67	51 29 57.52358818N	110 22 16.95232341W
T68	51 30 20.82515497N	110 21 51.94112040W
T69	51 28 10.74490198N	110 20 27.19290439W
T70	51 28 32.47761628N	110 21 04.15039486W
T71	51 29 04.14800441N	110 21 59.59179384W
T72	51 29 00.63907238N	110 21 15.67526335W
T73	51 29 49.45367925N	110 20 46.37326000W
T74	51 30 20.91738626N	110 20 52.08069395W
T75	51 28 48.06414841N	110 20 14.09666204W
T76	51 29 04.47314926N	110 19 40.27458509W
T77	51 29 40.74846440N	110 19 49.43862457W
T78	51 30 00.21149574N	110 19 39.55847114W
T79	51 29 13.04988920N	110 20 25.62063432W
T80	51 30 18.87413624N	110 19 25.64188990W
T81	51 29 24.06844411N	110 21 32.09287858W
T82	51 30 00.08272298N	110 21 41.33812755W
T83	51 28 19.03030553N	110 22 18.98009017W

Table 5.2: Wind Turbine Coordinates for the Oyen Wind Power Project

Turbine ID	Latitude (dd mm ss.ss)	Longitude (ddd mm ss.ss)
T84	51 26 04.13149570N	110 21 47.27044352W
T87	51 28 21.12215083N	110 25 12.59248674W

WP6)

Provide the following drawings and maps with units of measure/scale and the direction of north specified:

i. A legible plant site drawing showing all wind turbines, collector substations, collector lines and access roads and the power plant site boundary.

ii. Legible maps showing:

- The power plant site boundary.
- Land ownership of surrounding lands, including any residences and dwellings within the notification radius described in Appendix A1 – Participant involvement program guidelines, Table A1-1: Electric facility application notification and consultation requirements.
- Neighbouring municipalities, First Nation reserves, Metis Settlements, including nearby roads, water bodies and other landmarks that may help identify the general location of the project area. This map may be at a larger scale than the detailed maps provided in response to other information requirements.
- All registered aerodromes and any known unregistered aerodromes within 4,000 metres of the edge of the proposed turbine locations.
- o Important environmental features and sensitive areas in the local study area.
- Any additional energy-related facilities within the project area.
- The proposed collector line route or routes, and major land use and resource features (e.g., vegetation, topography, existing land use, existing rights-of-way). This information should also be provided in air photo mosaics.

Please refer to Attachment B and Attachment C.

WP7)

Provide the requested approval date from the Commission, the expected construction start date, the expected in-service date of the project and the requested construction completion date to be used in the project approval. Provide the rationale for these dates.

Table 7.1: Key Milestones and Dates

Key Milestones	Date	
Requested AUC Approval	February 1, 2025	
Connection Application	04 2024	
(to be filed separately)		
Expected Construction Start	May 1, 2026	
Expected AESO In-service Date	September 1, 2027	
Estimated Commercial Operation Date	December 31, 2027	
Phase 1		
Estimated Commercial Operation Date	December 31, 2028	
Phase 2		
Latest Requested Construction	October 31, 2029	
Completion		

Project connection

WP8)

If a connection order is not concurrently being applied for, provide the expected date when the connection order application will be submitted.

A connection order is concurrently being applied for by ATCO Electric Ltd. (ATCO).

WP9)

Provide the asset identification code assigned by the independent system operator (ISO) and the ISO Project ID number related to your system access service request, if available.

The AESO Project number for Phase 1 of the Project is P2356 Phase 2 of the Project is currently part of the AESO Cluster 2 connection process and has been assigned AESO Project number P2701.

WP10)

If the power plant is to be connected to the transmission system, provide a map with one or more conceptual layouts showing possible routes and general land locations for facilities that would be used to interconnect the power plant to the Alberta Interconnected Electric System.

Please see the proposed transmission layout from ATCO in Attachment D. As this project is not a Market Participant Choice project in the AESO interconnection process, ATCO will develop the transmission line route to connect the Project to the transmission system.

Emergency response plan

WP11)

Confirm the applicant has or will have a corporate or site-specific emergency response plan for the construction and operation of the proposed power plant. If the applicant will

have a corporate emergency response plan, please explain why it decided not to develop a site-specific emergency response plan.

The Proponent does have a site-specific emergency response plan for the construction and operation of the proposed power plant. Please see Attachment E.

WP12)

Provide a summary of the following:

- The site-specific risks (construction phase and operations phase) that have been identified to date.
- The emergency mitigation measures that have been identified.
- The site monitoring and communication protocols that will be put into place.

The Emergency Response Plan can be summarized as the following:

Site-Specific Risks:

Site-specific risks include injuries, damage incidents, spills, fire hazards, and hunting-related risks.

Emergency Mitigation Measures:

Procedures for safety-related incidents, damage incidents, spill response, site evacuation, fire prevention, and response equipment maintenance.

Specific measures for known site hazards like insect bites, stings, and hunting risks.

Site Monitoring and Communication Protocols:

- Communication of the plan and emergencies through training, meetings, and tailgate meetings.
- Designation of Emergency Response Coordinators.
- Notification procedures for safety incidents, damage incidents, spills, site evacuations, and fire prevention.
- Monthly inspections and maintenance of fire prevention and response equipment.
- Site-wide evacuation procedures and communication.
- Contact information for emergency services and designated medical facilities.

WP13)

Confirm that local responders and authorities have been contacted or notified regarding the project emergency response plan. Describe any requirements or feedback received and describe how the applicant intends to address the requirements and feedback received.

The Emergency Response Plan was shared with the local RCMP, Hospital, Fire Station, and Alberta Health Services. No requirements or feedback were received. If the Proponent receives any feedback or requirements in the future, the Proponent will work with the applicable stakeholder to ensure that the Emergency Response Plan covers all site-specific risks and appropriate mitigation measures are identified or implemented, as required.

Shadow flicker assessment

WP14)

Submit a shadow flicker assessment report that predicts the extent of shadow flicker at receptors within 1.5 kilometres from the centre point of each turbine where the potential for shadow flicker is possible. The assessment report must:

- Describe the time, location and duration of the shadow flicker predicted to be caused by the project.
- Describe the software or tools used in the assessment, the assumptions and the input parameters (equipment-specific and environmental) utilized.
- Describe the qualification of the individual(s) that performed the assessment.
- Include a map that identifies all receptors and the expected duration of shadow flicker for each receptor.

A shadow flicker assessment for the Project is provided in Attachment F. In accordance with Rule 007: Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations, Hydro Developments and Gas Utility Pipelines (AUC 2024), the shadow flicker assessment considered potential effects at 19 occupied dwellings located within 1.5 km of the proposed Project turbines. The assessment of the Project demonstrates that there is minimal potential for shadow flicker effects.

Environmental information

WP15)

If preparation of either a federal impact assessment or a provincial environmental impact assessment report was required, provide a copy as an appendix to the application and a separate environmental evaluation is not required. If a federal impact assessment or a provincial impact assessment report was not required, submit an environmental evaluation of the project. The environmental evaluation must:

- Describe the present (pre-project) environmental and land use conditions in the local study area.
- Identify and describe the project activities and infrastructure that may adversely affect the environment.
- Identify the specific ecosystem components (i.e., terrain and soils, surface water bodies and hydrology, groundwater, wetlands, vegetation species and communities, wildlife species and habitat, aquatic species and habitat, air quality and environmentally sensitive areas) within the local study area that may be adversely affected by the project.
 - Describe any potential adverse effects of the project on the ecosystem components during the life of the project.
 - Describe the methodology used to identify, evaluate and rate the adverse environmental effects and determine their significance, along with an explanation of the scientific rationale for choosing this methodology.
 - Describe the mitigation measures the applicant proposes to implement during the life of the project to reduce the potential adverse effects.

- Describe the predicted residual adverse effects of the project and their significance after implementation of the proposed mitigation.
- Describe any monitoring activities the applicant proposes to implement during the life of the project to verify the effectiveness of the proposed mitigation.
- List the qualifications of the individual or individuals who conducted or oversaw the environmental evaluation.

No federal impact assessment or provincial environmental impact assessment reports were required. An environmental evaluation was prepared by WSP Canada Inc. (WSP) for the Project and is provided in Attachment G. The potential effects of the Project were assessed for nine Valued Components (VCs): landcover, environmentally significant areas, terrain & soils, vegetation, wetlands & waterbodies, groundwater, surface water/aquatic species & habitat, wildlife & wildlife habitat, and air quality. These nine VCs were selected based on their importance to the public, to scientists and/or to government agencies, and based on the experience of RES and WSP with similar projects.

The effects assessment considered the direction, magnitude, geographic extent, and duration of potential effects, after the implementation of mitigation measures. These criteria were then used to assign a level of importance to the predicted residual effects of the Project on each VC. Overall, the importance of predicted residual effects on the VCs is predicted to be minimal to medium. RES is committed to working with Alberta Environment and Protected Areas (AEPA) - Fish and Wildlife Stewardship (FWS) to maintain Project effects on wildlife mortality at an acceptable level. The residual effects are not predicted to alter the sustainability of the VC beyond a manageable level and are therefore predicted to be not significant for all VCs.

It is the professional opinion of the assessors (WSP) that the Project is not likely to cause significant adverse environmental effects considering the implementation of appropriate mitigation measures.

AEPA-FWS determined that the Project poses a low risk to wildlife and wildlife habitat based on Project siting, avoidance of native habitat and sensitive wildlife features, and commitments made by the Proponent to mitigate and monitor wildlife impacts. The Renewable Energy Referral Report for the Project is provided in Attachment H.

WP16)

For projects wholly or partially located on federal lands (First Nation reserves, national parks or military bases), provide a copy of the environmental impact analysis completed for the corresponding federal government department. Indicate whether the project has the potential to cause effects that may cross into another jurisdiction. Environmental effects that originate on federal lands, but cross into another jurisdiction, must be addressed as part of the environmental review process. Projects on federal lands may be subject to provincial laws, standards and permits. The applicant must address how it has considered AUC Rule 007, Rule 012 and Rule 033: Post-approval Monitoring Requirements for Wind and Solar Power Plants and describe the steps taken, if any, to address specific requirements set out in these rules.

Not applicable.

WP17)

Submit a stand-alone, project-specific environmental protection plan (or environmental management plan) that itemizes and summarizes all of the mitigation measures and monitoring activities that the applicant is committed to implementing during construction and operation to minimize any adverse effects of the project on the environment.

A project-specific environmental protection plan (EPP) for the Project is provided in Attachment H. The EPP is a living document which will continually be updated before construction as new information becomes available.

End-of-life management

WP18)

Submit a copy of the initial renewable energy operations conservation and reclamation plan (REO C&R Plan) as set out in the *Conservation and Reclamation Directive for Renewable Energy Operations.*

A conceptual C&R Plan for the Project is provided in Attachment I.

WP19)

Provide an overview of how the operator will ensure sufficient funds are available at the project end of life to cover the cost of decommissioning and reclamation.

No later than 3 years prior to Project decommissioning, the Proponent will provide adequate security for decommissioning and reclamation (the "Decommissioning Security"), as specified in agreements with the Project landowners. The form of Decommissioning Security will be mutually agreed upon by the Proponent and Landowners and can be in the form of a bond, letter of credit, parent company guarantee, or other approved form of security that may required by the Commission or the Government of Alberta (GoA). An independent expert will determine the amount, required to cover the present value of estimated decommissioning costs for the Project. Additionally, a third-party administrator, jointly chosen by the Proponent and Project landowners, will administer and oversee the Decommissioning Security to ensure its proper management and disbursement in accordance with the terms specified in applicable Project agreements. The Proponent's obligation to provide the Decommissioning Security shall be subject to, and not in addition to, any obligation pursuant to any reclamation security requirements that may be established by the Commission or the GoA.

Noise

WP20)

Provide a noise impact assessment in accordance with Rule 012.

A Noise Impact Assessment (NIA) was conducted for the Project, and the NIA report is provided in Attachment J. In accordance with Rule 012: Noise Control (AUC 2021), the NIA considered potential effects at 19 occupied dwellings located within 1.5 km of the Project turbines and substation. For both the daytime period and the nighttime period, the NIA predicts that cumulative noise levels (which include the contribution from natural and non-industrial sources, existing,

1382-3381-3775.3

approved, and proposed industrial facilities, and the Project) will comply with applicable Rule 012 permissible sound levels for all receptors. The NIA also predicts there will be no low frequency noise issues at any receptors without the need for mitigation.

Approvals, reports and assessments from other agencies

WP21)

Identify any other acts (e.g., Environmental Protection and Enhancement Act, Water Act, Public Lands Act, Highway Development and Protection Act and Wildlife Act) that may apply to the project, identify approvals the project may require, and provide the status of each of these approvals.

The following federal and provincial acts may apply to this project:

- Aeronautics Act
- Alberta Utilities Commission Act, SA 2007, c A-37.2
- Electric Utilities Act, SA 2003, c E-5.1
- Environmental Protection and Enhancement Act, RSA 2000, c E-12
- Highways and Development and Protection Act
- Historical Resources Act, RS.A 2000, c H-9
- Migratory Birds Convention Act, 1994, SC 1994, c 22
- Municipal Government Act, RSA 2000, c M-26
- Occupational Health and Safety Act, SA 2020, c 0-2.2
- Personal Information Protection Act, SA 2003, c P-6.5
- Pipeline Act, RSA 2000, c P-15
- Public Lands Act, RSA 2000, c P-40
- Radiocommunications Act, RSC 1985, c R-2
- Safety Codes Act, RSA 2000, c S-1
- Soil Conservation Act, RSA 2000, c S-15
- Species at Risk Act, SC 2002, c.29
- Surface Rights Act, RSA 2000, c S-24
- Water Act, RSA 2000, c W-3
- Weed Control Act, SA 2008, c W-501
- Wildlife Act, RSA 2000, c W-10

Federal and provincial act that require authorizations, approvals or permits applicable to the project are listed below in Table 21.1.

Regulator or Agency	Act or Regulation	Rationale	Status
Alberta Culture and Status of Women	Historical Resources Act	Approval required for all permanent and temporary	See WP 23, amendments required for any project
		footprints.	updates.
AEPA	Water Act	Water Act Application for Wetland	Water Act approvals and Code of Practice Notifications will be

Table 21.1: Approval and Authorization Requirements for the Project

Regulator or Agency	Act or Regulation	Rationale	Status
		disturbance,	required for
		including a	permanent or
		Wetland	temporary wetland
		Assessment and	disturbance prior to
		Impact Report	construction. A Water
		(WAIR) or	Act application will be
		Wetland	submitted to AEP in
		Assessment and	Q2 of 2025 for
		Impact Form	permanently
		(WAIF)	impacted wetlands.
AEPA-FWS	AEPA-FWS Referral Report	Required by AUC rule 007 see section WP 22.	The Proponent submitted its report to AEPA in April 2023 and received a "Low- risk" ranking from AEPA on August 20th, 2024.
Alberta First Responders' Radio Communication System (AFRRCS)	Radiocommunications Act, RSC 1985, c R-2		September 24, 2024 Received email response from AFRRCS including their Engineering report stating they are supportive of this wind Project on the condition the Proponent does not move T26. The Proponent confirmed they have no intention to do so. The AFFRCS Engineering Report can be found in Attachment M Appendix O – Letters of non-objection.
Alberta Transportation	Highways and Development and Protection Act	The Project Footprint is within 300 m of a provincial highway and 800 m of the intersection of a provincial highway and public road intersection	Once project designs are finalized, permits will be applied for in advance of construction.
NAV Canada	Land Use Proposal Guidelines	Land Use Proposal Form –	Final designs must be -re-submitted at least 90 days prior to

Table 21.1: Approval and Authorization Requirements for the Project

Regulator or Agency	Act or Regulation	Rationale	Status
		General Submission Form	construction. Current Responses in Attachment M are only valid for 18 months.
Transport Canada	Aeronautics Act	Aeronautical Assessment Form for Obstruction and Lighting – Transport Canada	Final designs must be -re-submitted at least 90 days prior to construction. Current Responses in attachment M are only valid for 18 months.
Special Areas No . 3, Town of Oyen, Oyen Airport and Alberta Health Services.	Municipal Government Act	Special Areas No 3.	Letters of support from the Special Areas Board, Town of Oyen and AHS are provided in Appendix P of Attachment M. Additional municipal requirements will be assessed prior to construction.

Table 21.1: Approval and Authorization Requirements for the Project

WP22)

Submit a signed renewable energy referral report from Alberta Environment and Protected Areas (AEPA) Fish and Wildlife Stewardship. If the applicant is unable to provide a renewable energy referral report at time of application, the applicant must clearly identify the reason and provide details of its status.

A Renewable Energy Project Amendment Submission was submitted to EPA-FWS on March 1, 2024. On August 20, 2024, received a Renewable Energy Referral Report for the Project from AEPA-FWS. The Referral Report is provided in Attachment K. The overall risk ranking for the Project was assessed as Low

WP23)

Confirm that a *Historical Resources Act* approval has been obtained or has been applied for. If a historic resource impact assessment is required, briefly describe any known historical or archaeological sites, palaeontological sites, or traditional use sites of a historic resource nature. If a *Historical Resources Act* approval has been obtained, provide a copy of it.

HRA Approval with Conditions was issued on September 22, 2023 (HRA Number: 4941-23-0016-001. Fieldwork was completed in October 2023 and the Final report was submitted March 2024.

Archaeological site EiOn-5, located in 9-35-28-3-W4M, must be avoided during all development activities. Avoidance can be achieved by restricting all development activities, including vehicular traffic, to the currently proposed project footprint that crosses through the site boundaries.

If development activities cannot be contained to the proposed footprint within the site boundary additional Historic Resources studies will be required. HRA approval with conditions is provided in Attachment L.

WP24)

If the government of Alberta, through the Aboriginal Consultation Office (ACO) or otherwise, directed consultation with an Indigenous group for related approvals (i.e., Public Lands Act, Water Act, Environmental Protection and Enhancement Act, Historical Resources Act, Government Organization Act, etc.) the applicant must provide a copy of the pre-consultation assessment, the adequacy assessment and the specific issues and response table (if prepared). If the government of Alberta, through the ACO or otherwise, indicated that a pre-consultation assessment is not required, the applicant must provide a copy of that direction. If advice from the government of Alberta has not been obtained, the applicant must provide justification for its decision to not seek advice.

There are no First Nation Reserves or Metis Settlements located within the Consultation or Notification Zones for the Project. The Government of Alberta Aboriginal Consultation Office (ACO) was directly contacted by Project representatives and ACO representatives indicated that they would not assess any content of AUC applications, and that the ACO consultation process would not apply unless there were Public Lands being impacted, or applications being filed pursuant to the Water Act or Environmental Protection and Enhancement Act through AEP. The Proponent will submit a Pre-Consultation Assessment Request to the ACO when it is ready to submit its Water Act Application.

Participant involvement program

WP25)

Summarize the participant involvement information, including a description of the activities undertaken and include any engagement materials provided. (See Appendix A1 –Participant involvement program guidelines and Appendix A1-B – Participant involvement program guidelines for Indigenous groups.)

The Participant Involvement Program (PIP) for the Project involved a series of activities to engage and consult stakeholders, including mailing Project Specific Information Packages (PSIPs), hosting open houses, and maintaining a project-specific website. PIP activities undertaken for the Project are summarized in the PIP Report provided in Attachment M. Throughout the engagement process, stakeholders were provided with newsletters, detailed project maps, AUC brochures on participation, and feedback forms. The project website was launched in September 2022, allowing stakeholders to access up-to-date project documents and contact representatives directly. The engagement materials and events were designed to build trust, gather feedback, and address concerns as the Project progressed. The PIP was conducted in accordance with AUC Rule 007 guidelines to ensure transparent and ongoing communication with all stakeholders.

WP26)

List all occupants, residents and landowners on lands within the appropriate notification radius as shown below and described in Appendix A1 – Participant involvement program guidelines, as well as Indigenous groups, owners of aerodromes or other interested persons that were consulted as part of the participant involvement program.

The consultation list was developed in accordance with the PIP guidelines as outlined in Appendix A1 of Rule 007 and is provided as Appendix I of the PIP Report (Attachment M). Attachment C provides a visual representation of the Project area and the consultation and notification boundaries.

WP27)

Supply a list of contact information for all persons who had been contacted as part of the participant involvement program in a spreadsheet in accordance with the template included in Appendix A1 – Participant involvement program guidelines.

An Excel spreadsheet with the stakeholder mailing information is provided in Attachment N.

WP28)

Summarize consultation with local jurisdictions (e.g., municipal districts, counties).

Consultation with local jurisdictions began in 2016 when the Proponent first started engaging with the Special Areas Board and the Town of Oyen regarding the development of the Oyen Wind Power Project. Formal outreach to local jurisdictions, including the Special Areas Board and municipal districts, occurred as part of the first PSIP in September 2022, which included invitations to the first project open house. Representatives from these jurisdictions were invited to discuss the Project and provide feedback on project design and timelines. Regular follow-up communications occurred throughout 2023 and 2024. Feedback from local jurisdictions, particularly regarding the proximity of turbines to the Oyen Airport and concerns from the Town of Oyen, resulted in the removal or relocation of several turbines. The Proponent has maintained ongoing communication with these jurisdictions and is committed to keeping local representatives informed throughout the Project's development and construction phases.

Further details concerning the Proponent's consultation with local jurisdictions and letters of support from the Special Areas Board and Town of Oyen are provided in the PIP Report (Attachment M, Appendix P).

WP29)

Summarize consultation with Environment and Climate Change Canada regarding potential interference with nearby weather radars. If Environment and Climate Change Canada has identified the potential for significant interference with a weather radar, provide a copy of a mitigation agreement to be concluded with Environment and Climate Change Canada prior to the operation of the power plant.

The Proponent consulted with Environment and Climate Change Canada (ECCC) regarding potential interference with nearby weather radars. On March 11, 2024, the Proponent received a Letter of Non-Objection from ECCC, confirming that no significant interference was identified. This letter can be found in Attachment M, Appendix O – Letters of Non-Objection.

WP30)

Summarize consultation with Alberta First Responder Radio System, identify potential interference with other radar/radio frequency towers and provide mitigation measures agreed upon.

On September 24, 2024, the Proponent received an email response from Alberta First Responder Radio Communications System (AFRRCS) stating that they are supportive of the Project on the condition that Turbine T26 is not moved. The Proponent confirmed that there are no intentions to move T26. The AFRRCS Engineering Report can be found in Attachment M, Appendix O – Letters of Non-Objection. The Proponent will ensure ongoing compliance with AFRRCS recommendations to avoid interference with radar or radio frequency towers during the Project's development and operation.

WP31)

Identify all persons who expressed a concern(s) about the project. For each person, include the following information:

- The specifics of the concern(s).
- Steps taken to try and resolve the concern(s).
- Whether the concern(s) was resolved.

Please refer to the PIP Report in Attachment M.

Community generation

If the project is a proposed community generation project, the applicant must also submit the information specified in subsection 4.8.

Not applicable.

Rule 007 Interim Information Requirements

Agricultural Interim 1)

Using the current version of the Agricultural Regions of Alberta Soil Inventory Database (AGRASID), please describe the agricultural capability of soils intersecting the project footprint as provided in the spring-seeded small grains ("SSSGRAIN") attribute of the Land Suitability Rating System ("LandSuitabilityRatings") table. SSSGRAIN provides the Land Suitability Rating System (LSRS) classification for spring-seeded small grains for the related AGRASID soil polygons. Provide a table showing the amount of area for each LSRS class impacted by the project in hectares (e.g. 2.01 hectares of Class 2A).

The Project overlaps 23 AGRASID-mapped SMUs (AAF 2016) and one miscellaneous wetland soil SMU (ZGW), identified in detailed wetland mapping described in Section 3.5 of the Environmental Evaluation (Attachment G). The LSRS rating of soils within the Project Footprint are predominantly rated as Class 4 (60.8%), Class 6 (20.9%), and Class 5 (17.2%), largely limited by a lack of soil moisture, steep slopes, or saturated conditions (AAF 2016; Agronomic Interpretations Working Group [AIWG] 1995). Class 4 lands have severe agricultural limitations, Class 5 lands have very severe agricultural limitations, and Class 6 lands have extremely severe agricultural limitations (AIWG 1995). Class 3 soils are characterized by moderate agricultural limitations and occupy 1.1% of the Project Footprint (AIWG 1995).

The areal extent and LSRS rating of each SMU within the Project Footprint are summarized in Table 3.3 1 of the Attachment G.

Agricultural Interim 2)

From the Agricultural Regions of Alberta Soil Inventory Database (AGRASID), please describe all soil series within the project area and report all potential material impacts to:

- Soil quality (i.e. compaction, rutting, salinity, sodicity, fertility, contamination, clubroot)

- Soil quantity (i.e. wind erosion, water erosion)
- Hydrology (i.e. topography, soil drainage, depth to groundwater)

Describe how these material impacts to soil quality, quantity and hydrology will be adequately mitigated during construction, operation and reclamation.

Soil descriptions for each of the soil series found within the SMUs intersected by the Project are found in Table 3.3-2 of the Environmental Evaluation (Attachment G), including subgroup, parent material(s), parent material texture, terrain, slope grade, drainage, and calcareousness.

Risk of wind and water erosion, susceptibility to compaction, and salinity and sodicity are described in baseline conditions under Section 3.3.3 of Attachment G for each soil series and include:

- "Risk of wind erosion for soils within the Project Footprint is predominantly Moderate (68.8% of area), or Low (28.0% of area), with High risk being associated with coarse textured soils. Water erosion risk is predominantly Low to Moderate, with increased risk being associated with steeper slopes. Soils of the Hemaruka series (17.4% of area) have a water erosion risk of Low to High, with the High rating being associated with slopes greater than 9% and medium soil texture.
- "Compaction risk for soils within the Project Footprint is predominantly Low (78% of area), largely due to most soils being well drained. Soil textures within the ZGW SMU are variable, however Gleysolic and wetland soils are more susceptible to compaction due to poor drainage, so they have a High risk of compaction (12.7% of area).
- "Saline and/or sodic parent materials are common in SCA 1 and SCA 4, however, high salinity and/or sodicity is uncommon in topsoil, even in Solonetzic soils. Topsoil and upper subsoil within the Project Footprint are predominantly rated as Good for salinity (85.4% and 84.2% of area, respectively), with EC less than 2 dS/m and 3 dS/m, respectively. Sodicity of topsoil and upper subsoil is predominantly rated as Good (85.4% and 46.3% of area, respectively), with a SAR less than 4%. Upper subsoil of the Provost series is rated as Fair (22.5% of area), with a SAR of 4% to 8%, and upper subsoil of the Hemaruka series is rated as Unsuitable (17.4% of area), with a SAR greater than 12%."

Change in soil quantity (via erosion) and change in soil quality (via compaction, admixing, contamination, clubroot) are potential effects of the Project on soils, described in Section 3.3.4 of Attachment G.

Soil handling activities during the construction and decommissioning phases of the Project will include soil stripping and salvage, stockpiling, and soil replacement and reclamation. If mitigations related to soil conservation are not implemented during these activities, the following potential effects may arise:

• Change in quantity and/or distribution of soils: Soil erosion: The physical loss of topsoil and in some cases, upper subsoil, lowers the capability of the land to support plant growth

by decreasing the amount of available nutrients and organic matter in the root zone. The severity of this potential effect is directly related to the proportion of soil lost. The problem is more severe when topsoil is thin (<15 cm) or coarse textured. Soil loss from wind erosion may occur if soil handling, from either stripping or replacement, occurs during dry, windy conditions. Soil loss from water erosion is more likely to occur on exposed soil, along slopes and in wet areas within the Project Footprint.

- Change in soil quality via the following pathways: Compaction/loss of soil structure: The capability of soil to support vegetation can be reduced if the soil is compacted. Compaction affects soil quality by an increase in soil bulk density and soil strength, reductions in soil aeration and soil oxygen, reduced water infiltration and available soil water, restricted root growth, reductions in soil microbiological activity, and lowered nutrient uptake by vegetation. Compaction and loss of soil structure will be greatest when soil handling and equipment movement occurs during wet soil conditions and/or repeated handling.
- Salinity/sodicity and soil admixing: Organic carbon, nutrients, seed banks, and soil fauna are concentrated primarily within the A horizon (topsoil). Additionally, in areas with naturally occurring saline and/or sodic subsoils, admixing can introduce salts into topsoil. Stripping and storing topsoil separately from subsoil maintains soil quality and productivity and can potentially serve as a seed source for re-vegetation of non-cultivated lands. The potential for soil admixing (i.e., stripping topsoil and subsoil as a single lift, or overstripping/understripping topsoil and mixing the two materials) may be increased if a clear distinction between topsoil and subsoil in soil profiles is not apparent (i.e., poor colour contrast between topsoil and upper subsoil).
- Soil contamination: Soil contamination may result from spills during the construction, operations, or decommissioning period (e.g., fueling of equipment), which will reduce soil quality.
- Introduction of soil pathogens (i.e., clubroot): The pathogen (i.e., clubroot) spreads when soil is moved by on equipment, in flood water, and by wind erosion as soil attached to seed (earth tag), hay, straw, or greenfeed during the construction, operations, or decommissioning period. Clubroot is often first observed in areas where soil is most likely moved into a field, such as a field entrance (from equipment), low spots (from flooding), and shelterbelts (from wind). The acidic soils increase the probability of introduction of soil pathogens, which will reduce soil quality."

Mitigations to potential effects are included in Section 3.3.4.2, and in Table 6.0-1 of Attachment G and include:

Terrain

During construction, pre-disturbance landforms will be maintained to the extent possible, and all graded areas will be designed and built to shed water. During temporary and permanent reclamation activities, end land use targets will be considered, and landforms will be reclaimed to tie into adjacent topography, in consideration of pre-disturbance conditions.

Soil Quantity and/or Distribution

The amount of soil disturbance will be limited to the extent possible, with minimum disturbance construction techniques being used where practical e.g., plough-in methods for the underground collector system). To maintain a similar quantity and distribution of soils that can support ecosystems or agriculture compared to baseline conditions, a Soil and Vegetation Management Plan (SVMP) will be developed prior to construction, detailing site-specific soil characteristics, horizon depths, and soil handling recommendations.

Erosion

Limiting the total area of disturbance and time between stripping, stockpiling, and reclamation is expected to reduce the potential for soil loss from erosion. Soil handling activities will not occur during windy conditions. Tackifiers or seeding the stockpiles can be used to stabilize soil stockpiles. After soil replacement, tackifiers (e.g., lignosol), shredded straw or other mulches will be spread over soils to reduce loss of topsoil, prior to re-vegetation. Track packing will be used to create rough and irregular surfaces on stockpiles to reduce the potential for erosion and increase the area for seed capture, seed germination, and moisture retention. Soil stabilization by re-vegetation will be achieved within the Project Footprint by seeding disturbed areas with seed mixes selected in consultation with the landowner, as appropriate.

Earthwork-related construction or decommissioning activities will be completed during dry or frozen ground conditions. Additional mitigation measures may include limiting equipment travel, restricting activities to areas where topsoil and upper subsoil (if necessary) have been removed (i.e., the access road and those temporary workspaces that have been stripped). In the absence of effective mitigation procedures, Project activities will be suspended. Effective mitigation procedures can be determined through consultation between the contractor and an onsite coordinator/supervisor.

In addition, erosion and/or sediment control measures, such as appropriate matting or sediment fences will be placed along Project components where required. Follow-up inspections of the workspaces and communication with landowners will occur so that potential erosion issues are addressed in a proactive manner.

Soil Quality

Compaction/Loss of Soil Structure

Heavy equipment activities and soil handling will be restricted on fine (i.e., clay, sandy clay) and moderately fine-textured (i.e., clay loam, sandy clay loam) soils during wet conditions. Heavy equipment and vehicles will operate on these soils during dry or frozen ground conditions, and on previously disturbed areas, wherever possible. Construction and decommissioning will also be carried out using equipment with low ground pressure tires or wide-pad tracks, wherever possible. Rig matting or geotextile material may be used in areas identified as sensitive to compaction/loss of soil structure. Where structure may have been altered by soil handling the addition of organic matter may be used to ameliorate the soil structure on replaced soils, particularly on coarse textured soils.

Salinity/sodicity and soil admixing

Potential for admixing can occur whenever surface soils are disturbed. The amount of soil stripping in areas of sensitive soils (e.g., soils of the Hemaruka series) will be limited to the extent possible. Alternative soil handling procedures may be required if soil stripping in areas of sensitive soils cannot be limited. In areas where soil will be salvaged, the topsoil (A horizons) will be stripped and stored separately from upper subsoil (B horizons) to limit the potential for admixing.

Soil contamination

Project activities will follow standard construction and decommissioning practices to minimize the potential for spills. The spill prevention and response measures outlined in Section 3.4 of the emergency response plan will be adhered to during all phases of the Project.

Introduction of soil pathogens (i.e., clubroot)

Project activities will follow standard measures outlined in Alberta Clubroot Management Plan to minimize the introduction of soil pathogens and reduce the further spread of clubroot in within the Project Footprint. These control measures represent an acceptable standard that is to be applied in all municipalities across Alberta. Municipalities can enhance the standard within their own jurisdictions (ACMC 2014)."

Agricultural Interim 3)

Describe all earthworks (e.g., stripping and grading) planned for the project, including the following information:

- Methodology to anchor structures (e.g. screw piles, concrete footings, etc.).

- The extent of stripping and grading, with an estimate of the area of agricultural land impacted.

- Description of how these activities have been reduced in both extent and intensity (as practical) to protect the quality, quantity and hydrology of impacted soils.

Description of how and where stripped soils will be stockpiled and what steps will be taken to preserve the quality and quantity of stockpiled soils prior to replacement on site.
Description of how soils will be replaced on site to preserve the quality, quantity and hydrology of the disturbed soils.

A turbine foundation hole will be dug 2 cm deep and then a mud mat is poured, and the foundation rebar and bolt cage are installed on top of that. RES will utilize monolithic pouring methods for the concrete once the cage and rebar are installed.

An estimate of the maximum extent of stripping and grading was assessed for the Project's limit of disturbance. Volumes of salvaged topsoil and subsoil were conservatively estimated using the maximum extent of disturbance in the Environmental Evaluation (Attachment G). Because the estimated areal extents and soil volumes were calculated using the entire limit of disturbance, the extent of stripping and grading may be reduced as more detailed engineering is completed closer to construction.

The most common land cover types within the project footprint are cultivation 592.02 ha (83%) and tame pasture/hay with 51.2 ha (7.4%). There will be a net loss of 37.08 ha (5.24% of the total project footprint) of agricultural land cover types where infrastructure will remain following construction. The loss or alteration of agricultural land cover types is expected to be short-term to medium-term because these areas will be reclaimed to an equivalent land capability during decommissioning. During decommissioning, Project infrastructure will be removed, and the land will be reclaimed to equivalent land capability in accordance with landowner expectations and regulatory requirements, as appropriate. Land is expected to be returned to either cultivation or tame pasture or hay land.

To minimize adverse effects on land cover, the Project Footprint was limited to the minimum extent required to safely construct and operate the Project. Grading will be restricted to what is required for access and safe construction and operation practices. All vehicle and equipment traffic will remain within the Project Footprint and existing access roads and trails (e.g., road allowances). Temporary erosion or sediment control measures such as silt fences will be placed along Project components where required, and around sensitive areas like wetlands or waterbodies

A review of the land cover mapping was completed during the planning and Project siting process to minimize adverse effects to natural ecosystems (e.g., native grassland, native pasture, shrubland, wetlands, and natural wet features within the PSA), discussed further in Sections 3.4 and 3.5 of the Environmental Evaluation (Attachment G).

Stockpile locations have yet to be determined, but they will remain within the project's limit of disturbance. Stockpiles will be located in areas near the disturbance and sited to minimize soil handling during site preparation. Pre-Disturbance Site Assessments (PDSAs) will be completed in accordance with the C&R Directive (AEP 2018a) in 2025, and a SVMP will be prepared with additional site-specific mitigations for soil handling, soil conservation, reclamation, and revegetation. Topsoil and subsoil stockpiles will be located at least 1 m away from each other (3 m if stored longer than 6 months) (AEP 2018a) and will be recorded, mapped, and signed so it is clear what type of material is present in each stockpile. Additional site-specific soil stripping depths and plans will be developed after PDSA surveys are completed in 2025.

As detailed in the C&R Directive, topsoil and upper subsoil (A and B horizons, respectively) must be conserved during construction and operations, and replaced during temporary and permanent reclamation (AEP 2018a). The salvage approach includes stripping topsoil (A horizons) and upper subsoil (B horizons) as two separate lifts, with lower subsoil (C horizons) being excavated separately to the design grade depth. Topsoil and upper subsoil should be stripped to the total depth described in the operational mapping. Upper subsoil salvage is required to a maximum of 30 cm, which may be shallower than natural soil horizons. Additional mitigations to preserve the quality, quantity and hydrology of disturbed soils are presented in Table 6.0-1 of the Environmental Evaluation (Attachment G).

Agricultural Interim 4)

Describe the potential for co-locating agricultural activities (e.g. grazing, haying, crops, apiculture) into the project design. If co-locating agricultural activities is not feasible, please explain why.

All temporary workspaces will be reclaimed after construction is completed and agricultural lands will be returned to their current land uses.

Agricultural Interim 5)

List the qualifications of the agrologist(s) who prepared or reviewed the responses regarding agricultural land.

Claire Kisko, BSc Environmental and Conservation Science, Land Reclamation Major (University of Alberta, 2016) Professional Agrologist, Land Reclamation Practice Area (Alberta Institute of Agrologists, Registration No. 11920).

Land Use Interim 1)

Confirm whether the proposed power plant complies with the applicable municipal planning documents including municipal development plans, area structure plans, land use by-laws and other municipal by-laws.

The Project is located in Special Area No. 3 governed by the Special Areas Board. The Project is compliant with all applicable planning documents, for the Special Areas 3, and Land Use Order

and all other land use orders, municipal development plans, area structure plans and intermunicipal collaboration frameworks.

Land Use Interim 2)

Identify any instances where the proposed power plant does not comply with applicable municipal planning documents and provide a justification for any non-compliance.

The Proponent has received approval from Special Areas Board 3 to move turbines closer than the 550.00-meter setback specified in Land Use By-Law 49(4), contingent upon obtaining a waiver from the affected landowners. The proponent will ensure that all necessary waivers are secured to maintain compliance with municipal planning requirements.

Land Use Interim 3)

Describe how the applicant engaged with potentially affected municipalities to modify the proposed power plant or to mitigate any of its potential adverse impacts to the municipality, prior to filing the application.

The Proponent has had several exchanges with the Special Areas Board, including exchanges in-person, by email, phone and virtually.

On February 2, 2022, two Proponent representatives had an in-person meeting with Special Areas Board administration in the Special Area No. 3 office to introduce the Project. As the Proponent has had a Project in this area before, administration had already been familiar with the Proponent. Since this introduction, the Proponent has held two group sessions with the Special Areas Board, the RCMP, and the Town of Oyen, one on February 2, 2023, and the other on August 23, 2023. These group sessions were intended to allow for a proactive approach on any issues regarding the Project. These sessions were very positively viewed by all parties as a good way to keep the lines of communication open. In addition to these in-person group meetings, a Proponent representative sends a nearly monthly update on the Project.

On August 31, 2023, the Proponent attended a meeting that was organized by the Proponent and the Special Areas Board in order extend working group sessions to a wider group of stakeholders to discuss the airport. The attendees were the Town of Oyen (the Airport), Oyen Hospital, Alberta Health Services, and other consultants or individuals that made up a Landing Site Committee. The result of this meeting led to the Proponent relocating 7 turbines to mitigate the concerns raised by these stakeholders. The Proponent received several remarks from these stakeholders stating that they were very pleased at the proactive development approach taken by the Proponent.

In addition to Project modifications to address the airport, the Proponent has also obtained approval from the Special Areas Board to install underground cabling on the following quarter sections: SW 29-29-4-4, SE 29-29-4-4, NE 20-29-4-4, and NW 21-29-4-4. This configuration was preferred by the Special Areas Board over placing the cables within the Road Allowance.

Further details concerning the Proponent's consultation with local jurisdictions and letters of support from the Special Areas Board and Town of Oyen are provided in the PIP Report (Attachment M, Appendix P).

Viewscapes Interim 1)

List and describe pristine viewscapes (including national parks, provincial parks, culturally significant areas, and areas used for recreation and tourism) on which the

project will be imposed. Describe mitigation measures available to minimize impacts from the project on these viewscapes.

There are no pristine viewscapes including national parks, provincial parks, culturally significant areas, and areas used for recreation and tourism located with 35 km of the project footprint in Alberta. Visual simulations were provided during the open house to the local stakeholders showing the potential changes to the viewscape for comment.

Reclamation Security Interim 1)

Describe the reclamation security program for the proposed power plant, including details on:

(a) The standard to which the project site will be reclaimed to upon decommissioning. The Project will be reclaimed as per the C&R Regulation (GOA 1993), with the objective of reclamation being to return affected lands to equivalent land capability. The C&R Directive provides guidance to utilize the 2010 Reclamation Criteria for Wellsites and Associated Facilities for Cultivated Lands (ESRD 2013) as amended, this will be used to monitor reclamation progress, and determine reclamation success criteria as it pertains to the desired end land use.

As specified in lease agreements with Project landowners, the Proponent must remove all Project equipment upon decommissioning, which comprises the removal of all turbines, and above-grade facilities to at least three (3) feet below grade or in compliance with local governmental requirements. The Proponent will restore the ground surface of the property to its original condition, including the burial of tower foundations, and reseeding of tower pad areas with grasses and/or natural vegetation. The Proponent may, however, leave all roads in their condition existing at the time the lease expires or terminates.

(b) How the amount of the reclamation security will be calculated.

As noted in response to WP19), the Decommissioning Security will include the costs for decommissioning and reclamation and will be an amount sufficient to guarantee Proponent's financial obligation at the time of decommissioning and restoration of the property as determined by an independent expert. The amount of Decommissioning Security will be equal to the present value of estimated costs for achieving the defined reclamation standard at a point in time no later than 3 years prior to decommissioning or as otherwise required by any reclamation security requirements that may be established by the Commission or the GoA.

(c) The frequency with which the reclamation security amount will be updated or reassessed.

The reclamation security amount will undergo updates or reassessments when necessary to ensure it remains aligned with the evolving conditions and costs associated with decommissioning and reclamation, or at any other frequency or interval required by any reclamation security requirements that may be established by the Commission or the GoA.

(d) When the reclamation security will be in place to be drawn upon, if needed.

Access to the reclamation security by way of the Decommissioning Security is contingent upon the decommissioning of the power plant, at which point, the Decommissioning Security will be in place no later than three (3) years prior to decommissioning or as otherwise required by any reclamation security requirements that may be established by the Commission or the GoA.

(e) What form the reclamation security will take (e.g., letter of credit, surety bond, other).

The Decommissioning Security can take the form of a letter of credit, parent company guarantee, surety bond, or any other form of security that may be required by the Commission or the GoA

(f) The security beneficiaries to whom the reclamation security will be committed.

The beneficiaries of the reclamation security will be the respective Project landowners.

(g) How the beneficiary can access the security and any constraints on such access.

A third-party administrator who is jointly chosen by the Proponent and the Project landowners and engaged by the Proponent, will act administer and oversee the Decommissioning Security to ensure its proper management and disbursement in accordance with the terms specified in the applicable Project agreements.

(h) A report prepared by a third party estimating the costs of reclaiming the proposed project. The report must include the estimated salvage value of project components.

RES intends to file a third party estimate for the costs of reclaiming the proposed Project with the Commission by no later than **November 8, 2024**.

i) An explanation of why the chosen form of security was selected, having regard to its attributes and priority in bankruptcy, including how the secured party would be able to realize on the reclamation security should the project owner and operator be in default

As noted above, the Decommissioning Security can take the form of a letter of credit, parent company guarantee, surety bond, or any other form of security that may be required by the Commission or the GoA.

A letter of credit is backed by cash (i.e., the proponent must have an equal amount of funds deposited to match the value of the letter) and provides strong payment security to a beneficiary in the event of bankruptcy or default. A letter of credit would include conditions enabling the landowner to access the reclamation security if the Proponent breaches its agreement or becomes insolvent, and consequently fails to carry out decommissioning or reclamation activities according to the lease terms.

A parent company guarantee is issued on an irrevocable and stand-by basis by the parent company of the special purpose vehicle (SPV). The Proponent is a subsidiary of Renewable Energy Systems Canada Inc., which has a proven solvency and financial capacity, thereby providing a high degree of payment security to the beneficiary. In the event of bankruptcy or default by the SPV, the beneficiary could action the guarantee against the parent guarantor and the parent guarantor would be obligated to answer for the SPV's payment obligation.

A surety bond is a legally binding contract that also acts to provide assurance that a party (i.e., the surety or guarantor) will assume responsibility for fulfilling payment obligations in the event that the Proponent defaults or does not have adequate funds. The beneficiary has a right to file a claim against the bond or surety to recover any damages or losses incurred as a result of a default by the Proponent.

Substation:

TS1)

Provide a description of the proposed project.

The market participant submitted a request for system access service to the AESO to connect its proposed wind aggregated generating facility (AGF) designated as the Oyen Wind Power Project (Facility) in the Hanna area. The Facility is located in the AESO transmission planning area of Hanna (Area 42). The market participant's Facility includes a collector substation, to be designated as Tumbleweed 1043S.

The maximum authorized real power (MARP) of Phase 1 for the proposed Project is 251 MW. The market participant will register Phase 1 of the Project as a pool asset in the market and the maximum capability (MC) of the pool asset is 250 MW.Phase 2 of the Project is currently part of the AESO Cluster 2 connection process and is anticipated to have a MARP of 216 MW.

TS2)

Confirm if the application is for a customer project or an application related to a proposal for a market participant under Section 24.31 of the Transmission Regulation.

Not applicable.

TS3)

Provide details of the ownership structure, including the names of all companies having an ownership interest in the project and their ownership share, and if applicable, the name of the operator of the facilities that is seeking to acquire the permit or licence. Confirm that the applicant is a qualified owner.

RES Oyen Wind LP, as represented by its general partner, RES Oyen Wind GP Corp. (the Proponent), is a wholly owned subsidiary of Renewable Energy Systems Canada Inc. The Proponent, acting through its general partner, is a qualified owner as demonstrated by the Certificate of Incorporation included as Attachment A.

TS4)

Provide a list of existing approvals for facilities directly affected by this project, if any.

Not applicable.

TS5)

Provide a copy of the ISO direct assignment letter pursuant to the Electric Utilities Act. Alternatively, if a needs identification document was not required, provide a copy of the ISO approval letter pursuant to the abbreviated needs approval process, or provide a statement in the application that the project was exempt pursuant to the Transmission Regulation (as described in subsection 7.1 of this rule).

As noted in WP9, the AESO project number for Phase 1 of the Project is P2356. Phase 2 of the Project is currently part of the AESO Cluster 1 connection process and has been assigned AESO Project number P2701.

The transmission line and interconnection are being applied for directly by the TFO (ATCO) and will be the subject of a separate application.

TS6)

Provide the most up-to-date functional specification issued by the ISO.

The most up-to-date functional specification issued by the ISO is P2356 FS V2, provided in Attachment O.

TS7)

Describe the design and ratings of the transmission line and major elements of the substation.

Substation Equipment:

Add one 240/34.5 kV 168/224/280 MVA transformer with LTC.

Add one 240 kV circuit breaker with associated disconnect switch.

Add one 240 kV motor operated disconnect (MOD) switch.

Add one (1) 240 kV manual grounding switch as requested by ATCO in order to safely manually open the disconnect switches at the proposed T-tap.

Other equipment as required for the proposed development as shown in [Attachment O of Appendix 7.2.]

TS8)

If the ISO requires the facility applicant to determine the choice of conductors, describe the conductor size and arrangement selected and the basis for the conductor selection.

Not applicable.

TS9)

If the application is not direct assigned by the ISO, provide the rationale for the rating/size of any proposed conductor or piece of major substation equipment.

See Section 5.8 (2) of the Functional Specification provided in Attachment O.

TS10)

Describe the proposed transmission line structure type, including height and spacing; if more than one type of structure is proposed, state where each type will be used.

Not applicable.

TS11)

State the right-of-way width and the basis for determining the width.

Not applicable.

TS12)

Describe all major substation equipment being applied for, including the height of any telecommunications structure, and provide a list of the final major equipment that would be in the substation.

Substation Equipment

Add one 240/34.5 kV 168/224/280 MVA transformer with LTC.

Add one 240 kV circuit breaker with associated disconnect switch.

Add one 240 kV motor operated disconnect (MOD) switch.

Add one (1) 240 kV manual grounding switch as requested by ATCO in order to safely manually open the disconnect switches at the proposed T-tap.

Other equipment as required for the proposed development as shown in Appendix 7.2 of Attachment O.

Protection and Control Requirements

Install breaker failure protection functionality for the new circuit breaker.

Install synch check relays on the new 240 kV circuit breaker.

RAS Requirements

Install equipment as required to implement the remedial action schemes in Section 6.4 of Attachment O.

Telecommunication Requirements

Coordinate with ATCO to install new or modify/upgrade the existing communication system as necessary.

Establish an appropriate communications interface such that tele-protection, SCADA, operational voice, and operational data requirements are met.

Revenue Metering Requirements

Install a bi-directional meter to meet the metering requirement for the connection of the Facility.

SCADA Requirements

Coordinate with ATCO for any equipment required to implement the control schemes related to the Operational Constraints outlined in Sections 7.4 and 7.5 of Attachment O.

All new Remote Terminal Units (RTU) shall have Global Positioning System (GPS) signaling for time synchronization.

Synchrophasor Measurement Unit Requirements

Install Synchrophasor Measurement Unit as required in Section 502.1. The technical specification of Synchrophasor Measurement Unit shall follow IEEE C37.118-2005 (or later versions) with at least 30 samples per second.

TS13)

Describe the switching and protection features of the proposed transmission facilities.

Not applicable.

TS14)

Describe the electrical interaction of proposed transmission facilities with other facilities, such as pipelines, railways, telephone, radio and television transmission facilities, and other surface structures.

Not applicable.

TS15)

Describe the changes to existing facilities required to accommodate the proposed facilities.

Not applicable.

TS16)

Describe any transmission line routing alternatives to the proposal, and compare the relative effects (environmental, social and economic, including any associated distribution costs) of these alternatives with the proposal. If the alternatives are segmented, include a comparison of the effects of each segment to the effects of its corresponding alternative segments.

Not applicable.

TS17)

Provide an electric single-line diagram or switching map showing new facilities in place in the system. In the case of a substation, provide an electric single-line diagram and a substation layout diagram, including major items of equipment and the fenced boundary of the substation, with units of measure/scale.

Please see Appendix 7.2 of Functional Specification [Attachment O].

TS18)

Discuss the construction schedule, equipment and method of construction, and method of eventual right-of-way maintenance.

Not applicable.

TS19)

Provide the requested approval date from the AUC, the expected construction start date, the expected in-service date of the project and the requested construction completion date to be stipulated in the project permit(s) and licence(s).

Please see response to WP7.

TS20)

If available, provide the location of any required temporary or permanent workspace areas and access roads, and state whether these locations are requested to be listed in a permit and licence.

Please see Attachment C.

TS21)

Provide the following drawings and maps with units of measure/scale and the direction of north specified:

i. A legible map defining the study area and state the reasons for the chosen area.

ii. Legible maps of the proposed facilities showing:

- The preferred transmission line route and any alternative routes or segments.
- Right-of-way widths.
- Location of the transmission line on the right-of-way.
- Location of the transmission line relative to property lines.
- Kilometre points along each transmission line route.

iii. Legible maps and air photo mosaics upon which the proposed transmission line route(s) and/or substation have been imposed and showing the residences, landowner names, and major land use and resource features along the routes and/or adjacent to the substation (e.g., agricultural crops or pasture, topography, soil type, existing land use, existing rights-of-way, existing or potential historical, archaeological or paleontological sites, and superficial and mineable resources).

iv. Legible maps showing the most relevant environmental features, wildlife and aquatic habitat, ecological communities, environmentally sensitive areas, protected areas and designations present in the local study area.

Please see figure provided in Attachment C.

TS22)

Provide a Keyhole Markup Language (.kml/.kmz) file that contains the geographic data of the transmission line centrelines for all applied for transmission route options and substation locations. This file should reflect the information shown on the drawings and maps submitted to address information requirement TS21.

Please see Attachment B.

TS23)

If applicable, describe the measures proposed to minimize potential visual effects of the proposed development, including the identification of project components and locations that require screening and the screening measures (e.g., fences, earth berms, painting, landscaping) to be used.

The proponent did not encounter any concerns regarding the visual impact of the substation during stakeholder consultations. No stakeholders expressed concerns about the substation's visual effects, and as such, screening or other mitigation measures have been deemed not required at this time.

TS24)

Submit an environmental evaluation of the project. The environmental evaluation must: • Describe the present (pre-project) environmental and land-use conditions for the proposed route, substation location and any alternatives. • Identify and describe the potential effects of construction and operation of the project on the environment. In particular, describe

any potential adverse effects on soils, terrain, vegetation species and communities, wetlands, wildlife species and wildlife habitat, aquatic species and habitat, groundwater, surface water bodies and hydrology, environmentally sensitive areas, and land use within the local study area following and referencing published Alberta Environment and Protected Areas (AEPA) guidelines if applicable.

• Describe the methodology used and any field surveys conducted to identify, evaluate, and rate any potential environmental effects and determine their significance, along with an explanation of the scientific rationale for choosing this methodology.

• Describe the mitigation measures the applicant proposes to implement during the life of the project to reduce the potential adverse effects.

• Describe the predicted residual adverse effects of the project and their significance after implementation of the proposed mitigation.

• Describe any monitoring activities the applicant proposes to implement during the life of the project to verify the effectiveness of the proposed mitigation.

• List the qualifications of the individual(s) who conducted or oversaw the environmental evaluation.

• Present an overall comparison of the proposed routes, in particular, identify the environmental features and any potential environmental effects (e.g., on native vegetation communities, rare plants, wetlands, topography, unique terrain features, sensitive soils, wildlife species setbacks and wildlife habitat, and environmentally significant areas), and identify land use and resource features (e.g., agricultural, residential, recreational, forestry, trapping and hunting areas, protective notations, and existing or potential archaeological sites) for each route in a table with stated units (kilometre, total number, etc.).

Summarize the compatibility of the proposed facility with various municipal services if a proposed transmission line passes through or immediately adjacent to an urban centre.
If the project crosses agricultural land, describe any plans to prevent the spread of weeds and pests on agricultural land.

• If the project involves the modification or repair of an existing substation, describe any current or past on-site use of polychlorinated biphenyls (PCB) and summarize any site-specific incident spill records. Where soil disturbance will occur on or immediately adjacent to the substation site, describe any soil sampling or contamination assessment to be undertaken and describe any plans to safely manage, transport and dispose of contaminated soils.

The Environmental Evaluation that was completed for the Project, including the proposed substation, is provided in Attachment G.

TS25)

For projects wholly or partially located on federal lands (First Nation reserves, national parks or military bases), provide a copy of the environmental impact analysis completed for the corresponding federal government department. Indicate whether the project has the potential to cause effects that may cross into another jurisdiction. Environmental effects that originate on federal lands, but cross into another jurisdiction, must be addressed as part of the environmental review process. Projects on federal lands may be subject to provincial laws, standards and permits. The applicant must address how it has

considered AUC Rule 007 and Rule 012 and describe the steps taken, if any, to address specific requirements set out in these rules.

Not applicable.

TS26)

Submit a stand-alone, project-specific environmental protection plan (or environmental management plan) that itemizes and summarizes all of the mitigation measures and monitoring activities that the applicant is committed to implementing during construction and operation to minimize any adverse effects of the project on the environment.

A project-specific environmental protection plan (EPP) for the Project provided in Attachment H. The EPP is a living document which will continually be updated before construction as new information becomes available.

TS27)

Describe any decommissioning of existing transmission facilities and describe the reclamation plan that will be carried out, including for any temporary workspace areas and temporary access roads following commissioning.

Not applicable.

TS28)

Provide a noise impact assessment in accordance with Rule 012 for new substations and transformer additions within an existing substation, clearly indicating the impact of the new substation and/or transformer addition.

A Noise Impact Assessment ("NIA") was conducted for the Project, including the proposed substation. The NIA report is provided in Attachment J.

TS29)

Identify any other acts (e.g., Environmental Protection and Enhancement Act, Water Act, Public Lands Act and Wildlife Act) that may apply to the project, identify approvals the project may require, and provide the status of each of these approvals.

Please see response to WP20.

TS30)

For the preferred route and possible alternatives, applicants must provide a summary of feedback received to date from AEPA (including the local wildlife biologist of AEPA) addressing the environmental aspects of the project, and confirmation that AEPA is satisfied with any proposed mitigation measures and monitoring activities, or identify any unresolved project aspects where agreement with AEPA was not achieved.

Not applicable. The substation was considered as part of the AEPA-FWS Referral Report for the Project, as described in WP22.

TS31)

Confirm that a Historical Resources Act approval has been obtained or has been applied for. If a historic resource impact assessment is required, briefly describe any known

historical, archaeological sites, palaeontological sites, or traditional use sites of a historic resource nature. If a Historical Resources Act approval has been obtained, provide a copy of it.

Please see response to WP23.

TS32)

Summarize the participant involvement information, including a description of the activities undertaken and include any engagement materials provided. (See Appendix A1 – Participant involvement program guidelines and Appendix A1-B – Participant involvement program guidelines for Indigenous groups).

Please see response to W25.

TS33)

List all occupants, residents and landowners within the appropriate notification radius as determined using Appendix A1 – Participant involvement program guidelines, as well as Indigenous groups and other interested persons that were notified or consulted as part of the participant involvement program.

Please see response to W26.

TS34)

Supply a list of contact information for all persons who had been contacted as part of the participant involvement program in a spreadsheet in accordance with the template included in Appendix A1 – Participant involvement program guidelines.

Please see response to W27.

TS35)

Summarize consultation with local jurisdictions (e.g., municipal districts, counties).

Please see response to W28.

TS36)

Identify all persons who expressed a concern(s) about the project. For each person, include the following information: The specifics of the concern(s). Steps taken to resolve the concern(s). Whether the concern(s) was resolved.

Please see response to W29.

TS37)

Provide an AACE Class 3 cost estimate for the preferred route and all alternatives on a common basis, in accordance with the requirements in ISO Rules Section 504.5 and the AESO Information Document #2015-002R, Service Proposals and Cost Estimating. The format of the cost estimate provided must take the form of the estimate summary that is obtained by completing the AESO's cost estimate template (available on the AESO web page). Where identifiable, include costs to be borne by persons other than the applicant

and the applicant's customer(s) in the comparison. This information requirement may not be applicable to market participant and merchant line applications.

Not applicable.

TS38)

In addition to the above, if the applicant is a market participant applying under Section 24.31 of the Transmission Regulation, the applicant must also:

• Provide confirmation that all required agreements are in place with the TFO including the asset transfer agreement, the written agreement with the TFO for the temporary operation of the transmission facility, if available, and confirmation of ISO approval of the connection proposal.

• Specify the temporary period for which the market participant expects to hold the operating licence, which may not exceed the term specified in the written agreement with the TFO for the temporary operation of the transmission facility.

Not applicable.

Energy storage facility

TS39)

If an energy storage facility is to be constructed and operated as part of a transmission line, the applicant must also submit the information specified in Section 10.

Not applicable.

TS40)

An applicant seeking to construct and operate an energy storage facility as part of a transmission line must provide the approval number for the associated needs identification document application.

Not applicable.

List of Citations

- AAF 2016 (Alberta Agriculture and Forestry). 2016. Alberta Soil Information Viewer, Agricultural Region of Alberta Soil. [accessed April 10, 2024]. https://www.alberta.ca/alberta-soilinformation-viewer
- AEP 2018a Conservation and Reclamation Directive for Renewable Energy Operations. Land 2018 No.4. September 14. 2018: [accessed April 2024]. Policy https://open.alberta.ca/publications/9781460141359.Conservation and Reclamation Directive for Renewable Energy Operations. Land Policy 2018 No.4. September 14, 2018. Edmonton. Alberta, 66pp; [accessed April 2024]. https://open.alberta.ca/publications/9781460141359.
- AIWG 1995 (Agronomic Interpretations Working Group). 1995. Land Suitability Rating System for Agricultural Crops: 1. Spring-seeded small grains. Pettapiece WW, editor. Centre for Land and Biological Resources Research, Agriculture and Agri-Food Canada, Ottawa ON. 90 p.

- AUC (Alberta Utilities Commission). 2021. Alberta Utilities Commission: Rule 012: Noise Control. [accessed May 2022]. <u>https://media.www.auc.ab.ca/prd-wp-uploads/2022/01/Rule012.pdf</u>.
- AUC. 2024. Rule 007: Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations, Hydro Developments and Gas Utility Pipelines. Approved March 20, 2022; Effective March 28, 2024. 146 p.
- ESRD (Environment and Sustainable Resource Development). 2013. 2010 Reclamation Criteria for Wellsites and Associated Facilities for Cultivated Lands [updated July 2013; accessed April 10, 2024]. Edmonton AB. <u>https://open.alberta.ca/dataset/ee82f0ab-fef2-4b78-805d-8c6d341aabd2/resource/54dd817c-225a-483a-a3f1-09cab3136743/download/2013-2010-reclamation-criteria-wellsites-cultivated-lands-2013-07.pdf.</u>
- GOA (Government of Alberta). 1993. Conservation and Reclamation Regulation. Alberta Regulation 115/1993 with amendments up to and including Alberta Regulation 267/2022 under the Environmental Protection and Enhancement Act. In force September 1, 1993; current to March 1, 2023. Edmonton AB. <u>https://kings-</u> printer.alberta.ca/documents/Regs/1993_115.pdf
- Government of Canada. 2021. Regulations Designating Physical Activities. SOR/2012-147. Minister of Justice. Current to April 20, 2021. 18 p.