



OKANAGAN WIND

NEWSLETTER **OCTOBER 2016** ✨ 49.9899° N, 120.1005° W





Welcome to Okanagan Wind

Welcome to Okanagan Wind: the first wind power facilities in the Okanagan region of British Columbia. Located on Crown land, the projects are being developed in collaboration with the Upper Nicola Band, Westbank First Nation and the Penticton Indian Band.

Once operational, the Okanagan Wind projects will represent approximately 6% of British Columbia's installed wind capacity, helping to green the province's electricity grid.

The Okanagan Wind projects were developed by Zero Emission Energy Developments, Inc. and are sponsored by InstarAGF Asset Management Inc., a Canadian-based owner and operator of essential infrastructure assets.

Our mission is to deliver clean electricity as safely and efficiently as possible, with maximum value to our stakeholders and the local economy.

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TOTAL INSTALLED CAPACITY WILL BE 30 MEGAWATTS



ELECTRICITY WILL BE SOLD TO BC HYDRO UNDER A 40-YEAR PURCHASE AGREEMENT



THE POWER FACILITIES ARE EXPECTED TO BE OPERATIONAL BY EARLY 2017



THE 10 SENVION TURBINES WILL HAVE A HUB HEIGHT OF 100 METRES



THE FACILITIES ARE EXPECTED TO GENERATE APPROXIMATELY 100,000 MWH ANNUALLY: ENOUGH ELECTRICITY TO POWER THE EQUIVALENT OF APPROXIMATELY 9,000 HOMES



Turbine blades and tower construction at Pennask

All five wind turbines now stand tall at Pennask, with workers on site beginning the commissioning process. Deliveries of the wind turbine parts to Shinish have concluded, and the construction of turbine towers is underway.

Commissioning turbines at Pennask

Over the next few weeks commissioning of all wind turbines will continue at Pennask, with the commissioning of the substation also underway. Tests and inspections for each turbine, as well as the substation, will be a part of this process to prepare for operation.

Shinish turbines will be nearing completion, and construction on the overhead powerline will continue.

Turbine spotting from Highway 97C

All five turbines at Pennask are now visible from Highway 97C, standing tall above the trees with a hub height of 100 metres. Due to its remote location, turbines at Shinish will not be visible.



Terex Superlift CC3800 ^

The turbine blade unit will be assembled on the ground, weighing about the same as a Blue Whale at 120 tonnes. It will then be lifted by a crane to the top of each 100-metre tower. The main crane used on site is the Terex Superlift CC3800, a 650-tonne lattice boom crawler crane, supported by a Liebherr LTM 1400, a 500-tonne all terrain crane.

Did You Know?

- + Wind farms are designed to last for 25 years and longer, contributing much-needed electricity supply as well as environmental benefits
- + Unlike thermal sources of electricity production, such as coal or nuclear power, wind turbines generate electricity without consuming or contaminating fresh water, or depleting natural resources
- + At 30 MW, the Okanagan Wind projects will reduce BC's greenhouse emissions by 96 million litres a year – the equivalent volume of 32 Olympic-sized swimming pools
- + Canadian clean wind energy grew by 25% in 2015, creating 10,500 jobs [SOURCE: Canadian Wind Energy Association]
- + BC currently has about 489 MW of installed wind power capacity, representing about 1.6% of electricity demand [SOURCE: Canadian Wind Energy Association]
- + Between 15,000-17,000 additional jobs could be created if the \$1.3 billion taxpayer subsidies currently provided to the oil industry were invested in renewable energy or energy efficiency [SOURCE: Blue Green Canada]



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For more information on the Okanagan
Wind projects or to learn more about
the benefits of wind energy, please visit
okanaganwind.ca



PENNASK
SHINISH
VANCOUVER
KELOWNA

