

FINANCE AND CORPORATE SERVICES

Golden Pheasant Solar Generation Net Metering Project FCS-1-2020-3 January 22, 2020

Project Background

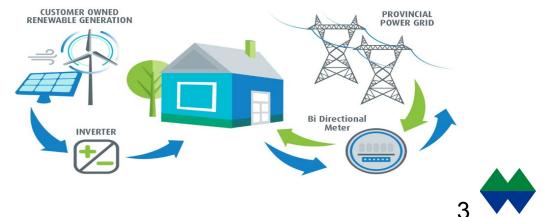
- In October of 2017, District Council approved a staff recommendation to initiate a request for proposal to develop solar generation net metering projects on suitable District properties.
- A request for proposal to develop a solar net metering system on the Golden Pheasant Clean Water Treatment plant property was awarded in April 2018 to AMP Solar Group Inc.
- Final system design and location on the property along with applications, studies and agreements necessary for the development were completed by late fall of 2018.
- Site preparations and construction started in spring of 2019.

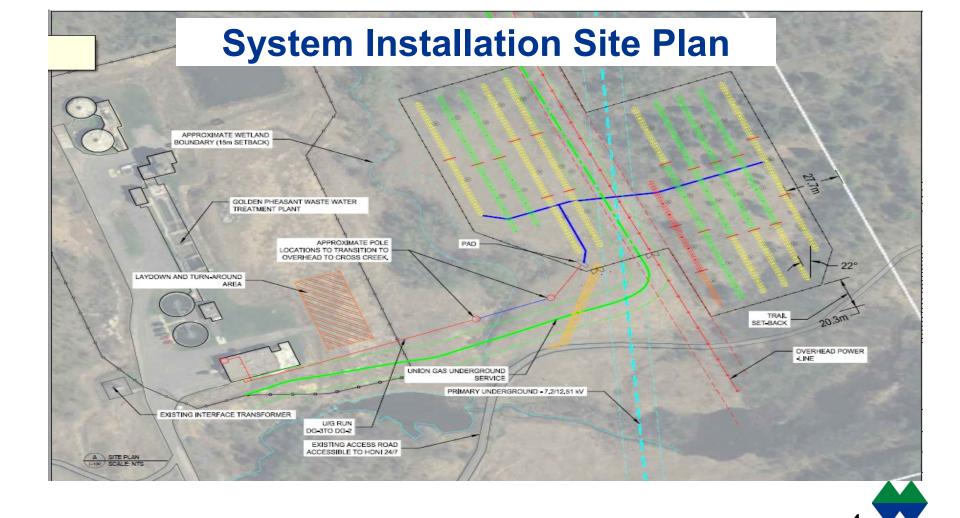


Net Metering Regulation

- Under the Net Metering Regulation, a potential generator can construct and connect a system with the generation potential equal or less than the size of the connected electricity service.
- Electricity produced by the electricity generation system is payable to the generator at the same rate for consumed electricity for the volumetric based electricity charges.
- An amendment to the Net Metering Regulation (O.Reg. 541/05) came into effect on July 1, 2017 which removed the maximum project size of 500kW.

HOW NET METERING WORKS





System Information and Benefits

- System area of approximately 3 acres
- 652 kWDC output
- 1,470 Hanwha Q Cell solar panels on a single axis tracking system with a Sungrow Invertor
- System performance base on 25 year operations:

Generation Potential (kWh)	Potential Revenue (A)	Capital Cost (B)	Operations and Maintenance Costs (C)	10 Year Financing Costs (D)	Estimated Net Revenue (E) A-B-C-D=E
21,892,312	\$4,813,127	\$1,880,000	\$554,184	\$391,946	\$1,986,997

- System will generate electricity from a renewable source equivalent to approximately 5% of the District's annual electricity in 2018.
- Offset of approximately 80 tonnes of CO2e annually.
- System expected to be commissioned in spring of 2020.





Tree removal, site clearing and grubbing started in January 2019





Access road and perimeter fence construction started in spring 2019





Helical pile installation and site grading work proceeded in summer 2019





Racking system and solar panel installation commenced in early fall 2019





All electrical, inverter and actuator installations were completed in fall 2019



Remaining Work



- Commissioning of solar system
- System tie-in at Golden Pheasant Clean Water Treatment Plant

