



NANTICOKE SOLAR

FACT SHEET

Nanticoke Solar Background Information

Capacity	44 Megawatt ac
Typical Annual Energy Production	73 thousand megawatt-hours
Solar Panels	175,00 to 210,000 panels
Electrical Connection	230kV Transmission System
Start Construction	Q4 2017
Complete Construction	Q4 2018
Delivery Trucks	On average approximately 10 per day
Peak Trades	Approximately 170
Project Completion	March 2019

Reports

Project Description	Storm Water Management
Construction Plan Report	Natural Heritage
Design and Operations Report	Water Body Assessment
Decommissioning Report	Archaeology/Cultural Heritage
Noise	Traffic

Field Investigations

Winter Wildlife	Woodland Evaluation
Breeding Amphibian Survey	Aquatic Habitat Assessment
Breeding Bird Survey	Fish Community Sampling
Ecological Land Classification, Vegetation Inventory and Wetland Delineation/Evaluation	Feature staking

RESULTS

Terrestrial: 5 woodlands in study area – will be retained

Wetlands: Wetland habitats identified and will be buffered:

- Meadow Marsh
- Thicket Swamp
- Deciduous Swamp

Watercourses: Water body under REA; protected with buffer) Permanent tributary to Hickory Creek;

Fisheries: Hickory Creek tributary provides direct permanent fish habitat; 4 fish species identified:

Creek Chub	White Sucker
Blacknose Dace	Banded Killifish

No Species at Risk (fish)

Candidate Significant Wildlife Habitat will be retained: Amphibian Breeding and movement corridors

Generalized Candidate Significant Wildlife Habitat ie Landbird Migratory Stopover Areas are within habitat being protected (woodland); Bat Maternity Colonies: Could be present within areas being protected – woodland; and Habitat for Special Concern and Rare **Wildlife Species:** Eastern Wood-Pewee (Special Concern) – breeding within woodland that is being retained and Wood Thrush (Special Concern) – breeding within woodland that is being retained

Endangered Species

- Bobolink (Threatened) –breeding within planted prairie area/ Cultural Meadow, Habitat
- subject to compensation under Endangered Species Act
- Compensation Plan accepted by MNRF; Notification Number issued;
- Compensation land secured in Ecozone 7E (Sarnia)

Archaeology: Stage 1 and 2 Archaeology Work completed, Ministry of Tourism, Culture and Sport has indicated that the Report is compliant with Ministry requirements for archaeological fieldwork and reporting and has been entered into the Ontario Public Register of Archaeological Reports

Built Heritage: Report submitted to the Ministry of Tourism, Culture and Sport. Review currently underway

OVERALL REA CONCLUSIONS

- Proposed project is located on lands that are suitable for solar development
- Key environmental features and functions of existing lands will be protected
- Compensation habitat being sought to replace Bobolink habitat.
- Good use of the former Nanticoke GS property for both construction and operations
- Potentially some construction stage environmental effects – but are manageable