

Solar Case Study



Location:

- /// Hager City, WI

Application:

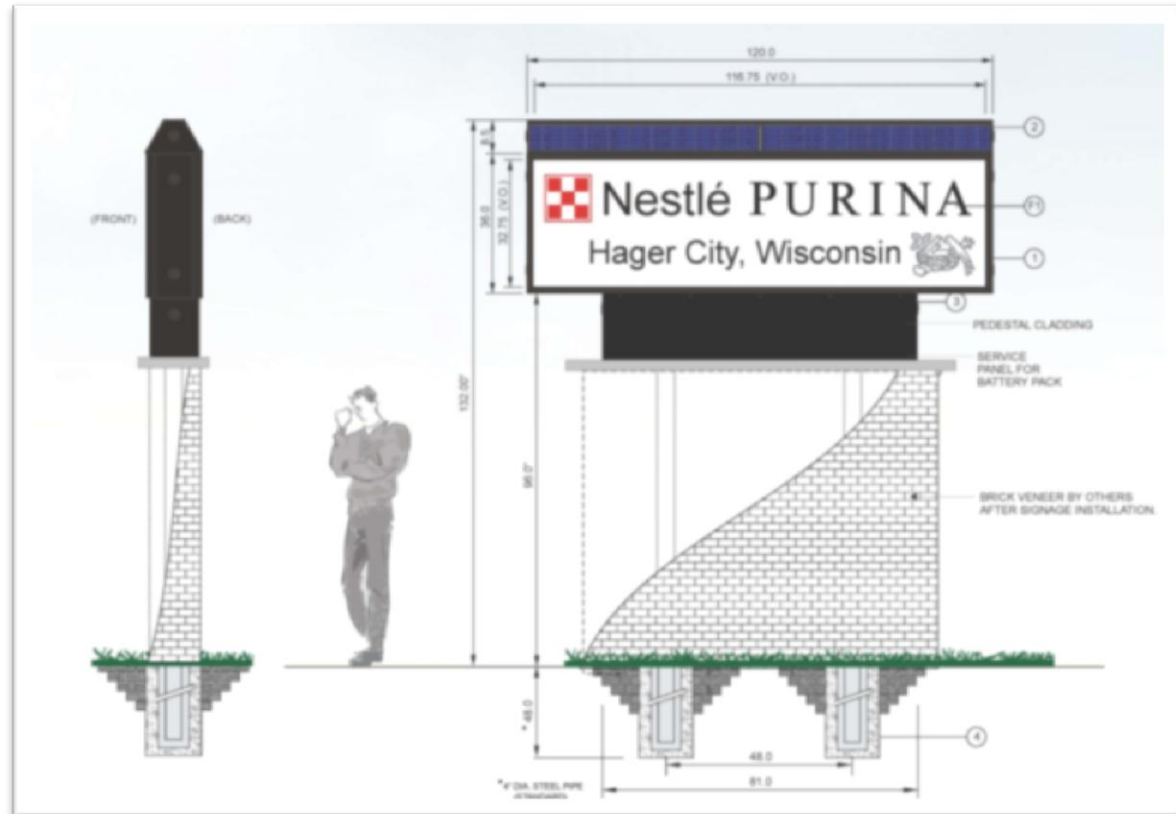
- /// Single Plant Facility

Project Scope:

- /// Design
- /// Engineering
- /// Fabrication

Challenges

- /// Very High Cost to Run Power to Sign Location
- /// Visibility Concerns
- /// Site Located in Retention Basin



Solar Case Study



Project Timeline

- 8 week completion which included: site survey, schematic design, design, engineering, fabrication and installation

Solution and Positive Outcomes

- Designed double sided sign for maximum visibility for ingress & egress routes.
- Final application is in line with Nestlé's corporate sustainability policy.
- Created an elevated base to offset any future flooding issues.
- Strategic long range planning now calls for additional expansion into solar power.



Project Costs / Payback



Capital & Installation Costs

of Signs:

Fluorescent

PVI Solar

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Capital Costs (Sign Cabinet & Solar)

\$ 6,369

\$ 15,444

Installation Costs (Trenching, Sign Cabinet & Solar Components)

\$ 7,150

\$ 2,650

(This Includes permits, engineering & all other associated costs)

\$ 13,519

\$ 18,094

Operating & Maintenance Costs

Total 10 yr. Electric Cost: (\$.12 / kwh w/ 7% annual increase)

\$ 4,200

\$ 0

Total 10 yr. Maintenance Cost: (Est. Service Schedule: Fluorescent: 2 yrs. / PVI: 5 yrs.)

\$ 1,500

\$ 1,080

\$ 5,700

\$ 1,080

Investment Tax Credits / MACRS Depreciation

Federal 30 % Solar: (Solar Kit & Kit Installation)

\$ 0

- \$ 3,691

State TBD % Solar: (Solar Kit & Kit Installation)

\$ 0

- \$ 0

MACRS-5 yr. Accelerated Depreciation: (Solar Kit)

\$ 0

- \$ 2,146

- \$ 0

- \$ 5,837

Total Cost Of Ownership

\$ 19,219

\$ 13,337

Payback Years

Within 1 Year