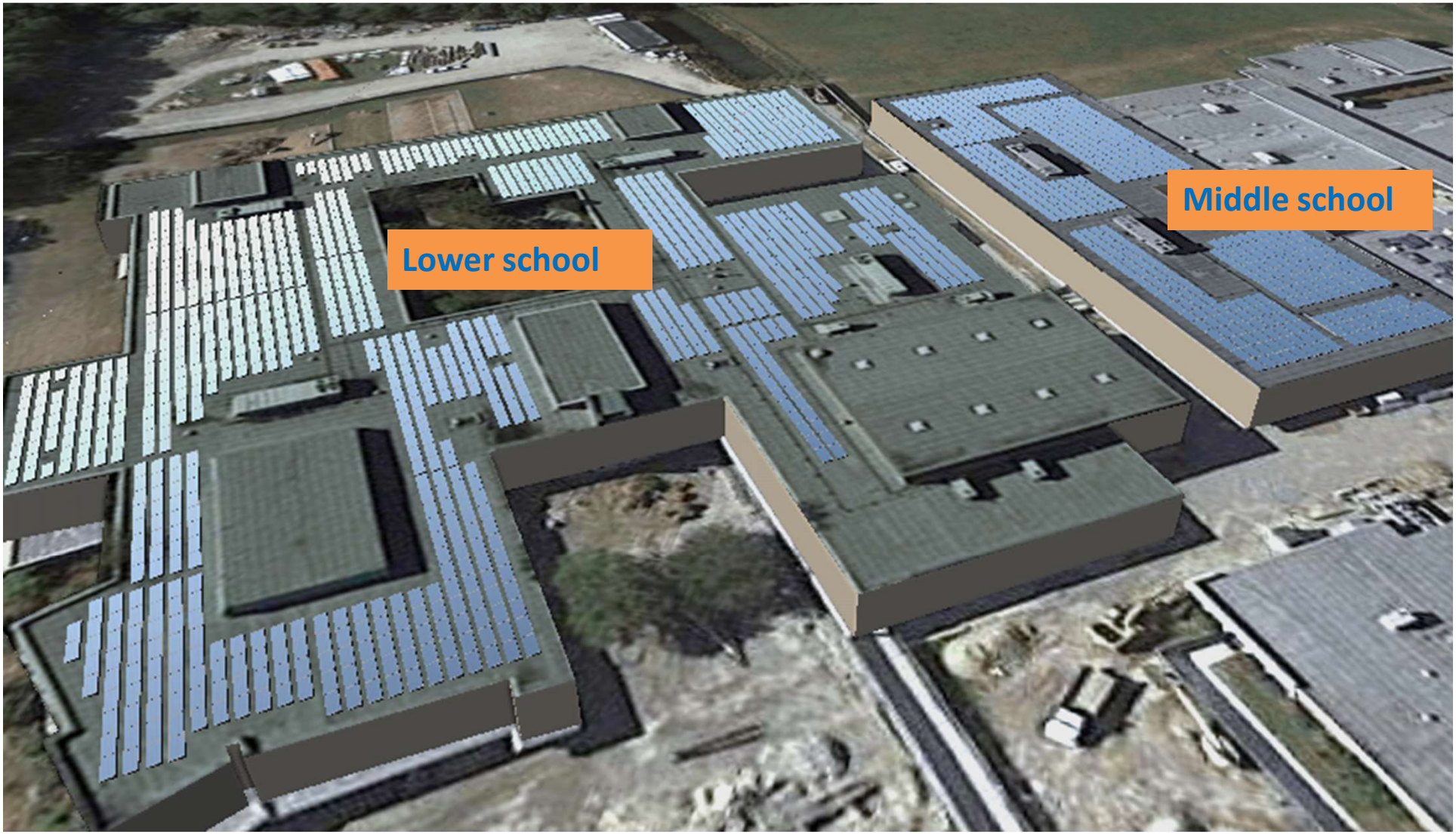

How NA Installed Solar
Ruth McElroy

Lower school install started Oct 22

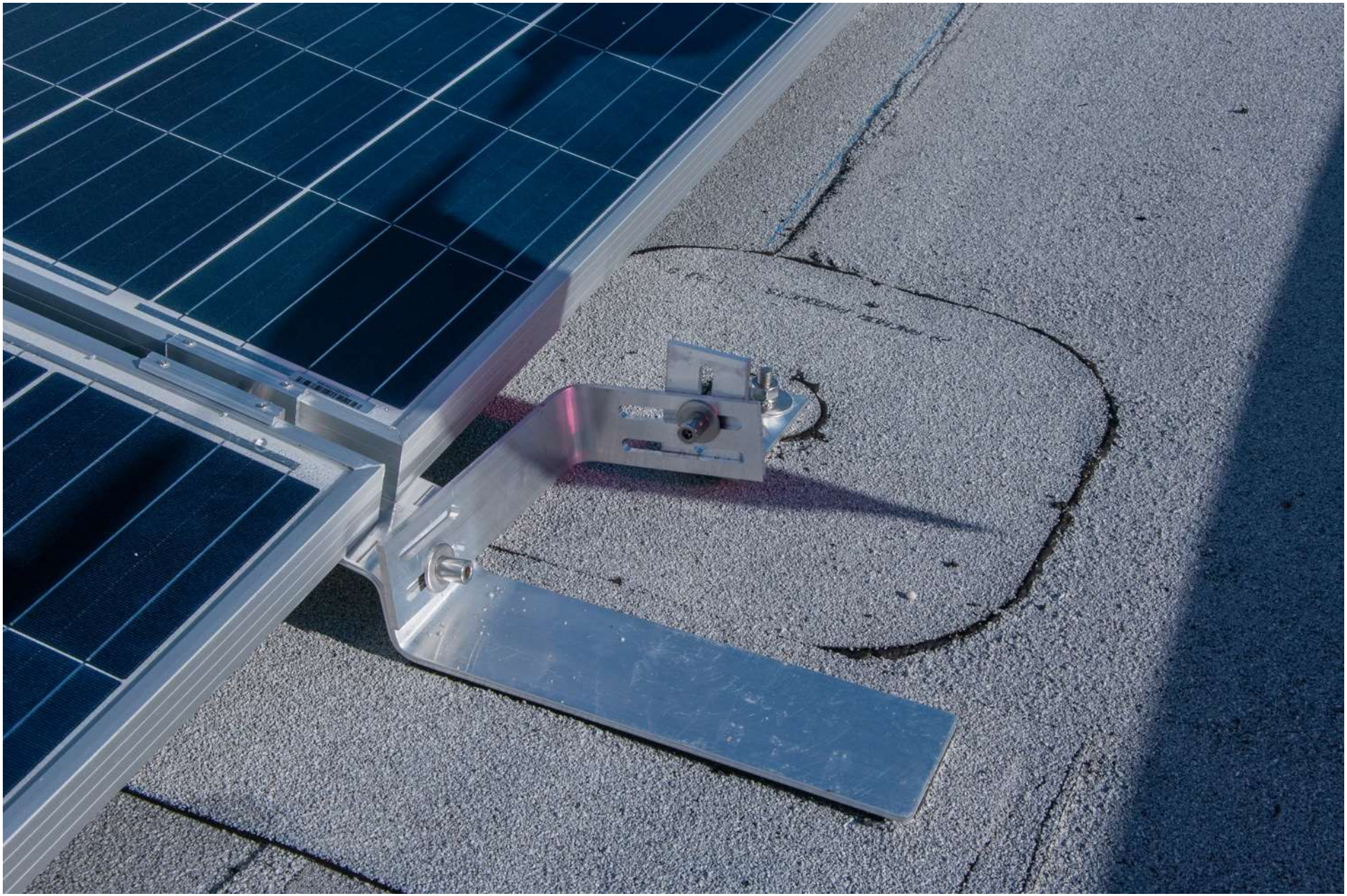
Complete Install



How It Came to Be

- $1M solar array bought by LLC of NA parents
  - 610 kW, enough to power ~80 homes
  - Grid-tied (Dominion pays NA for electricity generated)
  - Parents fully paid back after 7 years, then give array to school
  - NA gets solar with no money out-of-pocket
- Maintenance building completed May 2018
- Lower and Middle school install started Sept 2018
- Will have touch kiosks inside so students can watch energy production

Sun Dogs LLC

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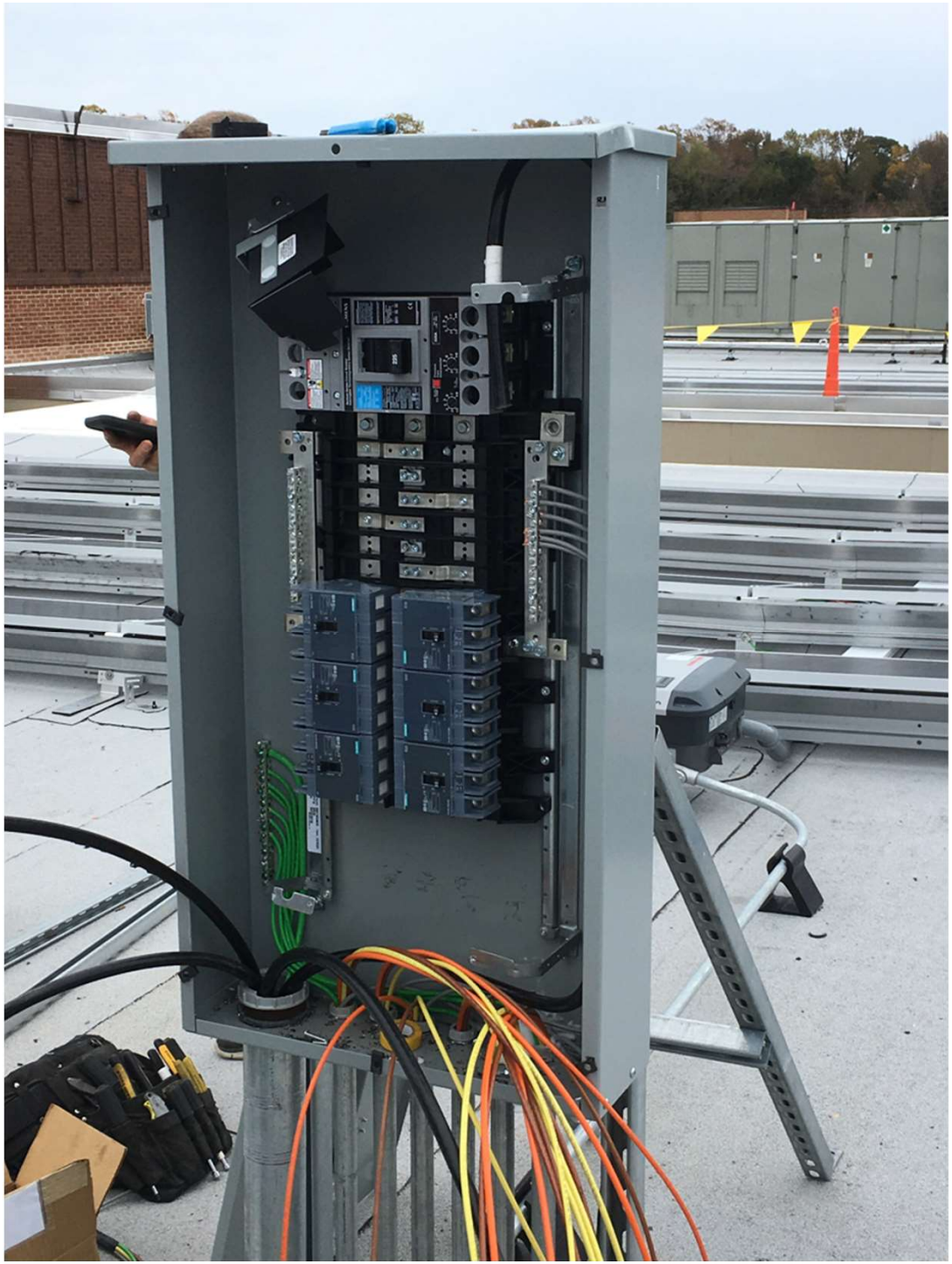

All the Numbers

- Panels 325W each
- 150 panels on maintenance building
  - Zeroed out that power bill for 4 months!
- 510 panels on middle school
- 1300 panels on lower school
- >610 kW power total
- $80,000 per year in solar electricity

Benefits for Norfolk Academy

- $80,000 per year in free solar electricity
- Decreases air-conditioning need
- Increases roof lifetime
- Decreases school carbon footprint
- Example of sustainability for Hampton Roads
- Allows students to learn about renewable energy

Presentation to EDI Fellows on Solar Installation

Questions?