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<https://modernthermaldesign.com/>

## Line Card of Products & Services

### Equipment

- **SunQuest 250™:** Best in class, US Patented high output evacuated tube solar thermal panels powered by UV rays that provide outstanding performance on cloudy days.
- **PV Solar Panels:** Highest quality 650W Canadian, German, Swiss or Israeli made.
- **Battery Energy Storage Systems (BESS):** Capture power from the grid or solar and use it when you need it most.
- **LED Lighting:** Top quality indoor/outdoor commercial units.
- **Solar UV A/C-Heat Split Units:** .75-to-2.0-ton cooling with heat split.
- **Chiller Flow Valves:** Installed at each air handler; up to 60% electrical savings per chiller.
- **ORC Waste Heat Turbines:** Utilizing waste heat to create free electricity.
- **Micro-Turbines:** 75, 150, 200 and 250kW; steam, natural gas, propane, hydrogen or biogas.
- **MW Turbines:** 1-16 MW models; steam, natural gas, propane, hydrogen, kerosine or biogas.
- **Absorption Chillers:** Powered by waste heat or turbines listed above.
- **Thermal Ice Storage:** Makes ice in off-peak nighttime hours for daytime cooling.
- **Thermal Heat Storage:** Stores waste heat for process, DHW or space heating.
- **Linear Generators:** 250kW high efficiency natural gas units, ITC /IRA compliant.
- **Digesters:** Onsite biogas production from waste-to-power turbines or linear gensets.
- **High-Efficiency Boilers:** Steam or hot water; combine with solar thermal for a renewable tax credit.
- **Air-to-Water Technology:** Converts humidity to sterile water; great for humid locations.
- **Hydrogen Fuel Cells:** 150-500kW units; powered by hydrogen gas or methane/water mixture.
- **Hydrogen Electrolyzer:** Produces up to 270kg of Hydrogen per unit, per day.
- **EV-H2 Combination Refueling Stations:** US Patent Pending; 100% carbon free (individual EV or H2 units also available).

### Services

- **Energy and Carbon Audits:** Complete carbon footprint analysis with recommended,
- **Feasibility Study:** Follows audits with recommended MTD in-house solutions including fully engineered and stamped drawings.
- **Commercial Loans and Leasing:** For renewable projects as well as other equipment needs.
- **C-PACE Financing:** Available in 39 states. Treated as an asset improvement with no debt on balance sheet. Lender is paid via tax assessment that remains with the property regardless of ownership changes.
- **PPA:** Power Purchase Agreement. Projects are completed and maintained at no cost to customers. Customer pays a substantially reduced rate for energy for the length of the contract.