Residential Energy Plan Reviews are based on the specified edition of the ICC International Energy Conservation Code® (IECC®). Commercial Energy Plan Reviews are based on Chapter 5 of the IECC or the referenced edition of ASHRAE 90.1 unless otherwise directed. In order to perform a thorough Energy Plan Review, the following specifications, drawings and details should be submitted:

1. Complete signed and sealed (as required by applicable laws) plans and specifications as indicated below.

2. Envelope—Architectural plans and specifications to include:
   a. Description of uses and the proposed occupancy group(s) for all portions of the building.
   b. Thermal performance of envelope components.
   c. Fenestration performance details (U-factor, SC, SHGC, VLT, air leakage rates, etc.).
   d. Fully dimensioned drawings to determine gross and net areas of all envelope components.
   e. Details of vapor barrier and insulation installation, and air sealing methods.
   f. REScheck, COMcheck, or ENVSTD output (where applicable).
   g. Design conditions (interior and exterior) consistent with local climate.

3. Electrical—Complete plans and specifications of all electrical power and lighting work including:
   a. Riser diagram(s) of the distribution system indicating:
      1. Check metering provisions for individual dwelling units.
      2. Subdivision of feeders by end use: 1) Lighting, 2) HVAC, 3) SWH and systems over 20 kW.
   b. Lighting fixture schedule(s) depicting location, fixture lamps, ballasts, ballast specifications, fixture input watts, fixture wiring methods, power factor, etc.
   c. Lighting plan(s) for building exteriors including total exterior Connected Lighting Power (CLP).
   d. Lighting and power floor plans for building interiors including total interior CLP.
   e. REScheck, COMcheck, or LTGSTD output (where applicable).
   f. Interior and exterior means of lighting control.
   g. Electric motor schedule including type, HP and efficiencies.

4. Mechanical—Complete plans and specifications of all mechanical work including:
   a. Equipment type, capacity (Btuh) and efficiency (peak and part-load).
   b. System design air flow rates (cfm).
   c. Details of equipment/system sizing.
   d. System and/or zone control capabilities including terminal device schedule.
   e. Provisions for automatic setback/shutdown.
   f. Indicate intentions or plans for systems commissioning.

(continued)
g. Energy consumed by fans and pumps.
h. Economizers (air or water) including provisions for integrated control.
i. Duct construction and system static pressure(s), including provisions for sealing.
j. Duct and/or hydronic-piping lining and insulation materials.
k. Provisions for air and/or hydronic system balancing.
l. Boiler and water heater equipment and piping details, safety controls and distribution piping layout.

5. Service water heating (SWH)—Complete SWH specifications including:
   a. SWH equipment data including type, capacity and efficiency.
   b. SWH pipe insulation, thickness, conductivity and vapor retarder (where appropriate).
   c. Water conservation requirements.
   d. Energy conservation measures for swimming pools (where applicable).