



PINAL COUNTY  
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REGULATIONS GOVERNING

# Residential Photovoltaic Systems

PINAL COUNTY COMMUNITY DEVELOPMENT DEPARTMENT

BUILDING SAFETY DIVISION

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INFORMATION  
BULLETIN

# 021

April 2015

Listed below you will find the submittal requirements for a Residential Photovoltaic System plan review:

## 1. SITE PLAN

Site plan should have the typical elements of any site plan with the addition of the solar arrays (roof mounted, ground mounted) and major components located.

## 2. ELECTRICAL DIAGRAMS

One-line and three-line diagrams should be provided in the submittal. The diagrams should have sufficient detail to call out electrical components, wire type and size, number of conductors, and conduit type and size. Information on the PV modules and inverter(s) should be noted and means of utility disconnect called out.

## 3. MAJOR COMPONENT INFORMATION

Major components include **INVERTER, MODULE, ARRAY** and **BATTERIES** (if used). Submittal should include model # and MFG's "cut sheets" for specific models and UL listings. Array electrical information should include # of modules in series, array operating voltage, array operating current, max. system voltage and array short circuit current.

## 4. MOUNTING DETAILS

For roof mounting, the weight of the PV array in pounds per square foot should be noted. Type of roof covering (comp, tile, etc), roof framing (2 x's @ 16" o.c., trusses @ 24" o.c., etc) should also be noted. Roof mounting details and method of sealing penetrations are to be in the submittal. For ground set PV array some type of anchoring system should be called out and detailed.

## 5. NOTES

Please reference NEC 2011 on plan notes. The notes should say "PV equipment shall be installed in accordance with NEC 690 & posted with approved warnings, signage & plaques per 705-10, 690-17 and 690-64.

## 6. INTERNATIONAL FIRE CODE (IFC)

Roof-mounted arrays, ground-mounted arrays and associated equipment, conduit and conductors shall comply with section 605.11 of the 2012 IFC for marking DC conductors, location of DC conductors, roof access, pathways and spacing. Plan should show compliance with the IFC.

For additional information please contact our department at the number listed above.