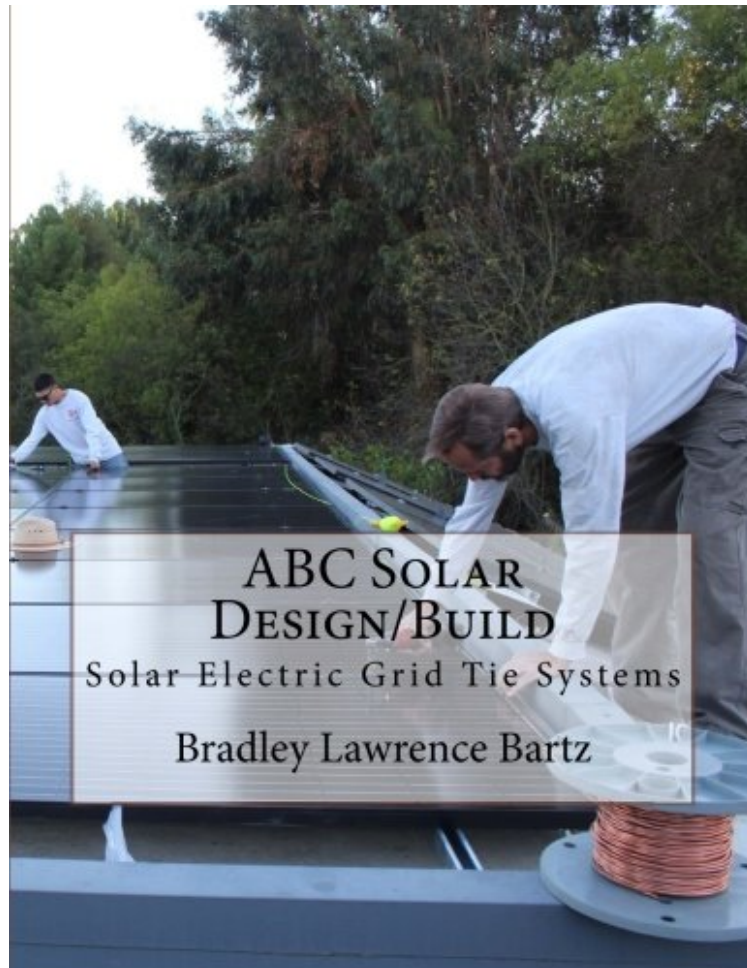


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ABC Solar Design/Build: Solar Electric Grid Tie Systems (Volume 1)

Mr. Bradley Lawrence Bartz

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Mr. Bradley Lawrence Bartz : ABC Solar Design/Build: Solar Electric Grid Tie Systems (Volume 1) before purchasing it in order to gage whether or not it would be worth my time, and all praised ABC Solar Design/Build: Solar Electric Grid Tie Systems (Volume 1):

0 of 0 people found the following review helpful. It's a big photo book of poor quality picturesBy jordoPublished in 2016, yet still using pixalated pictures. It's a big photo book of poor quality pictures. Gave it the 2nd and 3rd star because the information is still worthwhile.

ABC Solar Design/Build of Solar Electric Grid Tie Systems is a highlight of various types and styles. From commercial to residential to utility grid tie system ABC Solar has experience since 2000 design and building for clients around the planet. The ABC Solar Installation Team Checklist The ABC Solar team is trained to look at each

property and identify key standard items that are required in system design. The purpose of a thorough site visit is to accurately build a system that gets built to original design. This helps every stakeholder in the process feel comfortable, saves time and money. Our first checks are summarized as roof integrity and distance verification. The roof checks for spacing of the rafters. Most roofs are 16 inch on center with 2 x 6 timber. These are perfect for solar as they need no structural improvements. On the ground we are concerned about the distance from the proposed solar array to the main panel and our grid-tie connection point. We can be far, but the wire size has to be right to carry the current without significant loss. Roof types: Composition Shingle, Asphalt Shingle, Spanish Tile, Concrete Tile, Metal tile, Standing seam (Metal), Wood Shake, Ground, Flat (Ballasted OK, Not OK) Roof Condition and age please describe the roof and ask the owner how old it is. Roof Orientation / Azimuth which direction is the roof surface(s) facing? Tilt of Roof from Horizontal the tilt is critical in determining solar production. Estimated Roof Surface Available for Array - Draw Picture with measurements and photos Shading - Draw a diagram, note any local shading (chimneys, vent pipes, antennas, gables, etc) Placement - Draw Solar Array Location and Available Size Note Roof Penetration Location: -Interior / Exterior or Attic / Cathedral Ceiling Utility Room Space for : - DC Disconnect__, Inverter__, AC Disconnect__ What is the Main Panel Amp size? _____amps. Are there open breaker spots? Yes / No Conduit Location and Length: -Array to Inverter _____ft -Inverter to Service Panel _____ft This is key to size the wire to be ready for the amps and voltage of the solar panel array. Wire sizing tables that check temperature, amps and distance are used for this purpose. The Cupola Solar Estate This custom home features 5 copper Cupola structures above a Spanish Tile roof. The Cupola design is carried thru the entire home to the layout of the pool. This solar grid-tie system features 30 Suniva American made 285 black on black solar panels. These connect to a SMA Sunnyboy inverter with an emergency use circuit. Panels chosen meet Palos Verdes Art Jury aesthetic black rules for solar installations. This system is expected to generate 11,609 kWh a year of free solar power! The Federal Tax Credit of 30% off the total system price was a good motivator. The Southern California Edison (SCE) excessive price for retail power is a main motivator and is the focus of the system investment value. Each Cupola houses 6 Suniva solar panels using a combination of S-5 clamps on the copper roof ridges (non-penetrating) and L-feet lag-bolted into support members and spanned with Uni-strut and SnapNrack solar racking. The design by ABC Solar is meant to please the original architect and his Jenga game block home. Special thanks to the City of the Rancho Palos Verdes for granting our permit over the counter. It is always a pleasure to present unique designs to plan checkers and even better in RPV. The enthusiasm is infectious! The better part of the installation is drinking wine and laughing under the Solar Cupolas.