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SolaireHolman 1 LLC
50MW Solar PV Project

Brewster County Commissioner's Court
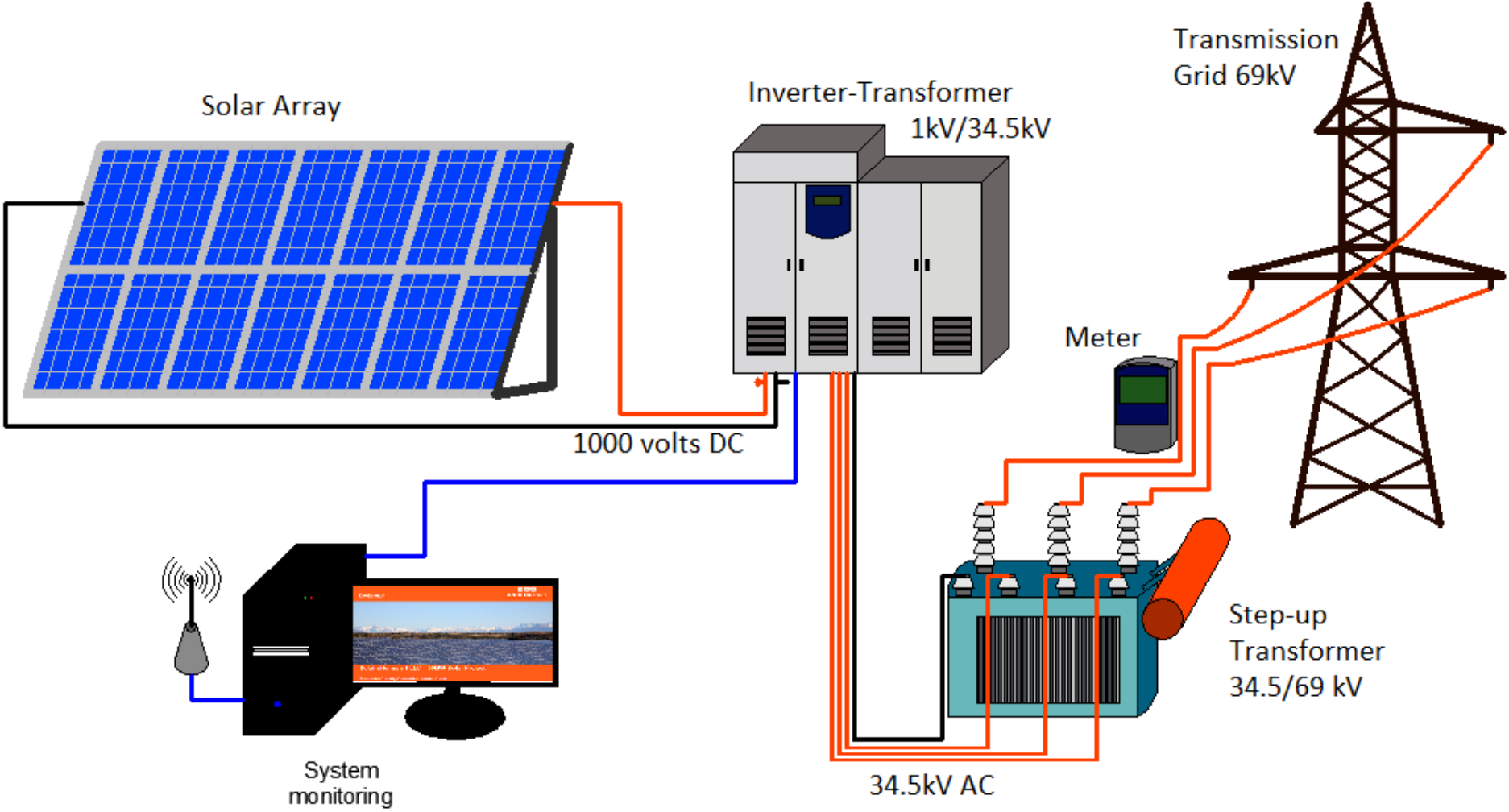
December 13, 2016

SolaireHolman Project Overview

Largest Solar Plant in the Largest County in Texas!

- **50 MWac Solar Photovoltaic Project, Single Axis Tracking**
- **Selling electricity to city of Houston and to ERCOT wholesale market**
- **Connecting to AEP/WTU Transmission Grid**
  - **Area transmission system reinforcements are underway**
- **Site is on 360 acres leased from Casner/Holman 6 Partnership ranch**
  - **West side of Hwy 67 NE of Alpine, 12 miles north of Alpine**
- **Project has executed agreements with:**
  - **County of Brewster**
  - **Alpine Independent School District (AISD)**
  - **Big Bend Hospital District**
- **Construction underway, current progress ~25%**
- **Will be operating in Spring 2017**

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Elements of a Utility-Scale Solar PV System

Solar Array

Inverter-Transformer
1kV/34.5kV

Transmission
Grid 69kV

1000 volts DC

Meter

Step-up
Transformer
34.5/69 kV

34.5kV AC

System
monitoring

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Solar Array Tracker and Module Mounting

DC string wiring

Site Layout

1-mile

2/3 mile

836'-5"

597'-9"

US Hwy 67

GENERAL NOTE
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2. TWO EXTERIOR PILES ARO
   REFER TO SCOPE OF WOR
3. REFER TO SHEET S401A

EXTERIOR TYPE PILES ON
THE PERIMITER OF THE
ARRAY.

NOTE 2

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Construction Progress – July – Site Preparation

Site Preparation Contractor
Heath Turner
HATCO Construction

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Construction Progress – September – Civil Work

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Construction Progress – October - Structural
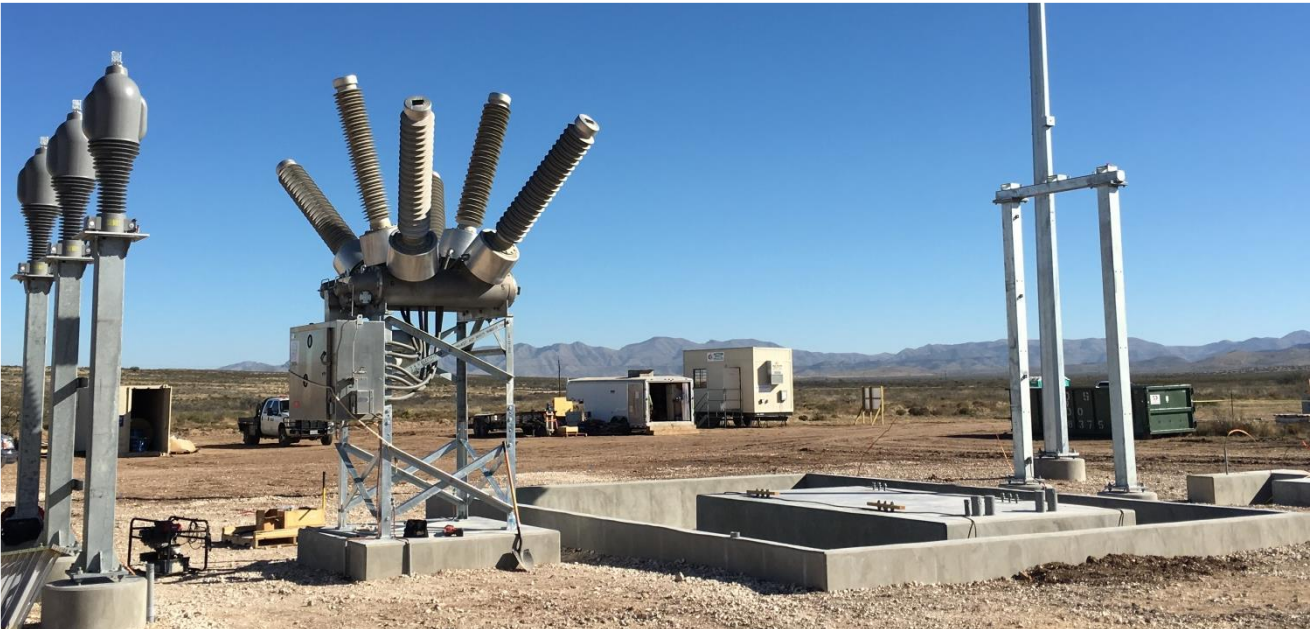
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Construction Progress – November – Trackers & Modules

First Modules Mounted – Nov 30th

Construction Progress – December – Electrical

Step-up Substation – 69kV – 52 MWac

Construction – By The Numbers

Material Quantities

- 500 miles of DC wiring
- 700,000 linear feet of trackers
- 203,840 modules (solar panels)
- 28,028 I-beam piles
- 26 blocks
  - 98 rows/trackers
  - 80 modules per row
  - 1 inverter-transformer station
- 2,548 self-powered tracker motors
- 5 miles medium voltage AC cables
- 4 miles of game fence
- 2.2 miles overhead power line

People and Equipment

- 148 workers (week of Dec 2nd)
- 179 sea containers delivered
- 200 trucks delivered
- 100% piles delivered, 40% installed
- 100% trackers delivered, 15% installed
- 40% of modules delivered, 5% installed
- 12 telescoping forklifts
- 3 pile driving rigs
- 2 excavators
- 1 water truck, full time (dust control)
- 24-hour security guards
- 15,000 work-hours
- Zero accidents/injuries

Online in Spring 2017

THANK YOU!

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