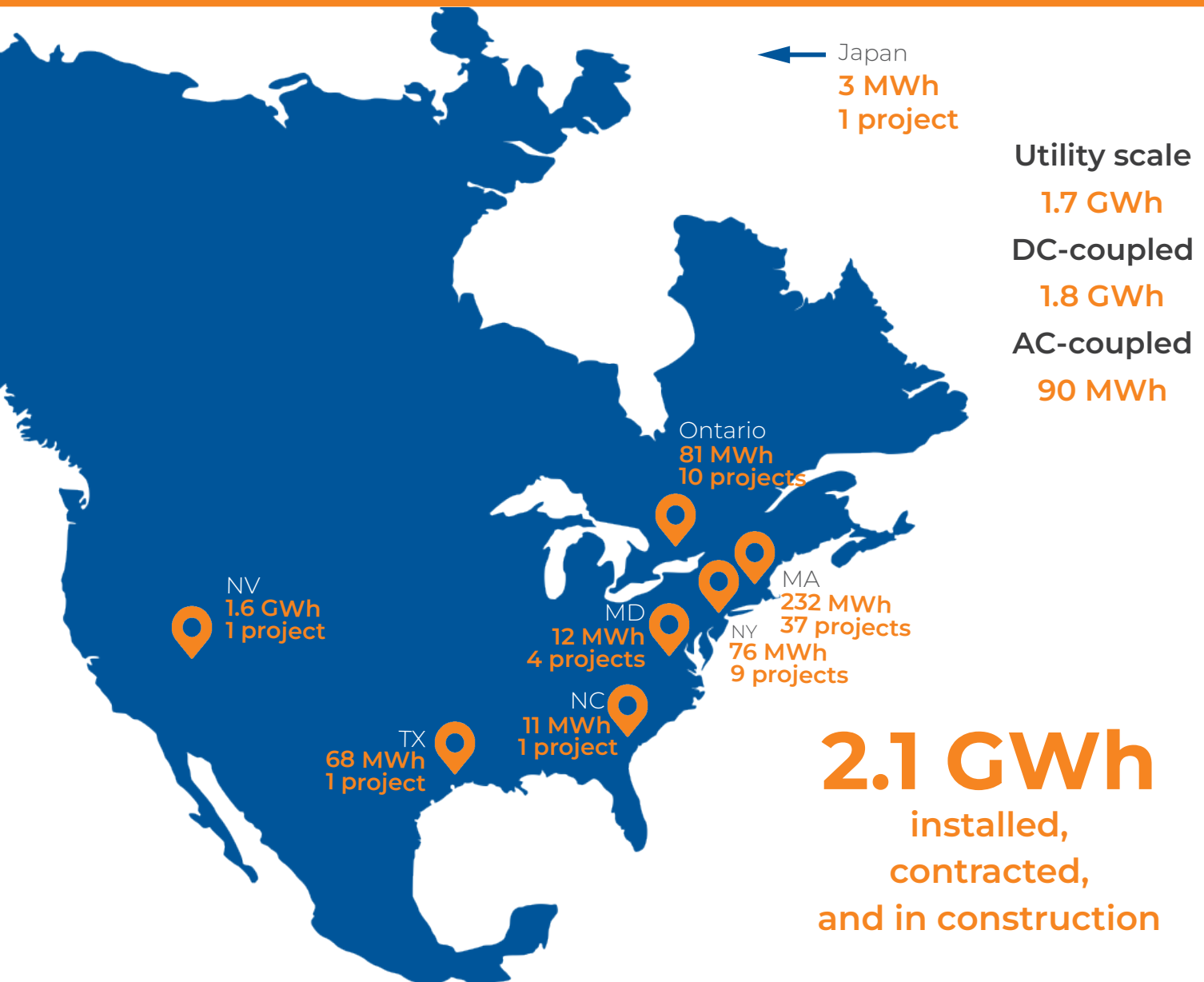


Project Experience



IHI Terrasun Solutions is a battery energy storage system integrator for utility-scale projects with years of experience in DC-coupled systems. Terrasun's projects range from stand-alone storage to DC- and AC-coupled solar plus storage systems in a variety of sizes and use cases, managed by proprietary system controls and integration software.

Terrasun has 2.1GWh of deployed, in construction, and contracted energy storage projects across North America.

Sample Projects



By providing 50MW/ 50MWh AC-coupled solar plus storage, along with 10-year warranty and maintenance services, Terrasun will support Glidepath in their efforts to bring grid stability in ERCOT.

Project Details:

Commissioning expected:
Q2 of 2022

Size: 50 MW/68 MWh

Use case: ERCOT participation

Location: Byrd Ranch, Texas



DC-coupled solar plus storage solutions, Terrasun will supply system integration with overall power plant controls and lifecycle services that are connected with the 690MW solar to support Primergy's effort in reducing the system peaks + support the overall grid system in NV.

Project Details:

Commissioning expected:
Q3 of 2023

Size: 380 MW /1,406 MWh

Use case: Solar shifting, peak shaving, voltage regulation

Location: Clark County, Nevada

Project List

MWh (DC)	Project Type	Use Case	Location	Status
1,587.9	DC-coupled, PV+ESS	Solar shifting, peak shaving, voltage regulation	NV	In construction
68.2	Utility Scale ESS	ERCOT participation	TX	In construction
28.9	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
25.8	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	Complete
21.9	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
12.8	DC-coupled PV+ESS	Solar shifting, VDER program incentive	NY	In construction
12.8	DC-coupled PV+ESS	Solar shifting, VDER program incentive	NY	In construction
12.8	DC-coupled PV+ESS	Solar shifting, VDER program incentive	NY	In construction
11.9	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	Complete
11.0	DC-coupled PV+ESS	Solar shifting, VDER program incentive	NY	In construction
10.9	AC-coupled PV+ESS	Solar shifting, Peak shaving	NC	In construction
10.3	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	In construction
10.3	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	In construction
8.8	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	NY	In construction
8.5	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
7.8	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
7.8	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
7.8	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
7.4	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	Complete
7.4	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
7.3	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
7.3	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
6.7	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction

Project List

MWh (DC)	Project Type	Use Case	Location	Status
6.6	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	In construction
6.6	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	Complete
5.8	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
5.7	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	In construction
5.5	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
5.5	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
5.5	DC-coupled PV+ESS	Solar shifting, VDER program incentive	MA	In construction
5.2	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
5.2	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
5.2	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
5.2	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
5.2	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	Complete
4.5	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
4.4	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
4.4	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
4.4	Stand alone ESS	Peak shaving, ACES program incentive	MA	Complete
4.4	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	Complete
4.4	Stand alone ESS	Peak shaving, ACES program incentive	MA	Complete
4.4	DC-coupled PV+ESS	Solar shifting, VDER program incentive	NY	In construction
4.4	DC-coupled PV+ESS	Solar shifting, VDER program incentive	NY	In construction
4.4	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
4.4	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	NY	In construction
4.4	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	NY	In construction

Project List

MWh (DC)	Project Type	Use Case	Location	Status
4.3	Stand alone ESS	Solar firming, MUNI peak shaving, ICAP participation, ACES program incentive	MA	Complete
4.3	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
4.0	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	Complete
4.0	AC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	Complete
3.7	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	In construction
3.7	AC-coupled PV+ESS	Solar shifting, Peak shaving	MA	In construction
3.5	AC-coupled PV+ESS	Solar shifting, Peak shaving	MD	In construction
3.5	AC-coupled PV+ESS	Solar shifting, Peak shaving	MD	In construction
3.4	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
3.3	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
2.9	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	In construction
2.6	AC-coupled PV+ESS	Solar shifting, Peak shaving	MD	Complete
2.6	AC-coupled PV+ESS	Solar shifting, Peak shaving	MD	Complete
2.2	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	Complete
2.1	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	In construction
1.5	Stand alone ESS	System peak reduction through forecasting and ESS dispatch	Ontario	In construction
1.1	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	In construction
1.1	DC-coupled PV+ESS	Solar shifting, MA SMART program incentive	MA	Complete

Definitions

PV: photovoltaic

ESS: energy storage system

ERCOT: Electric Reliability Council of Texas

SMART: Solar Massachusetts Renewable Target (Commonwealth of Massachusetts)

VDER: Value of Distributed Energy Resources (New York State)

ICAP: Installed capacity

ACES: Advancing Commonwealth Energy Storage (ACES)