



**Innovative Approach to deploy
Commercial & Industrial solar**
Presented by Ardi Arian

August 22, 2023

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WHICH INVENTOR WOULD BE MOST SURPRISE?



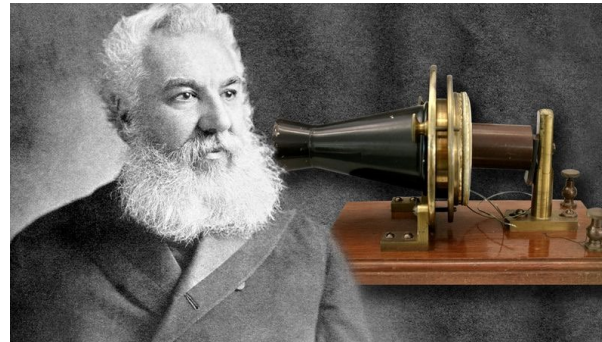
2023

DeLorean from Back to the Future



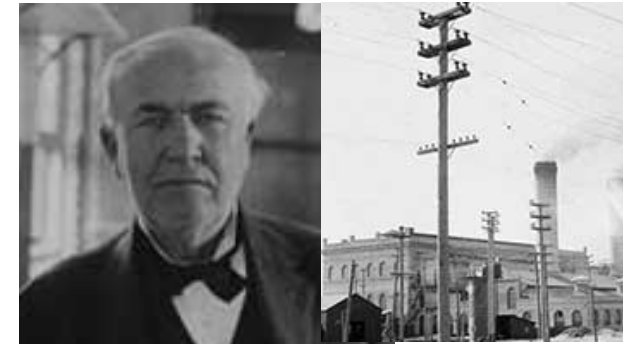
First Radio

G. Marconi (1874 – 1937)



First Phone

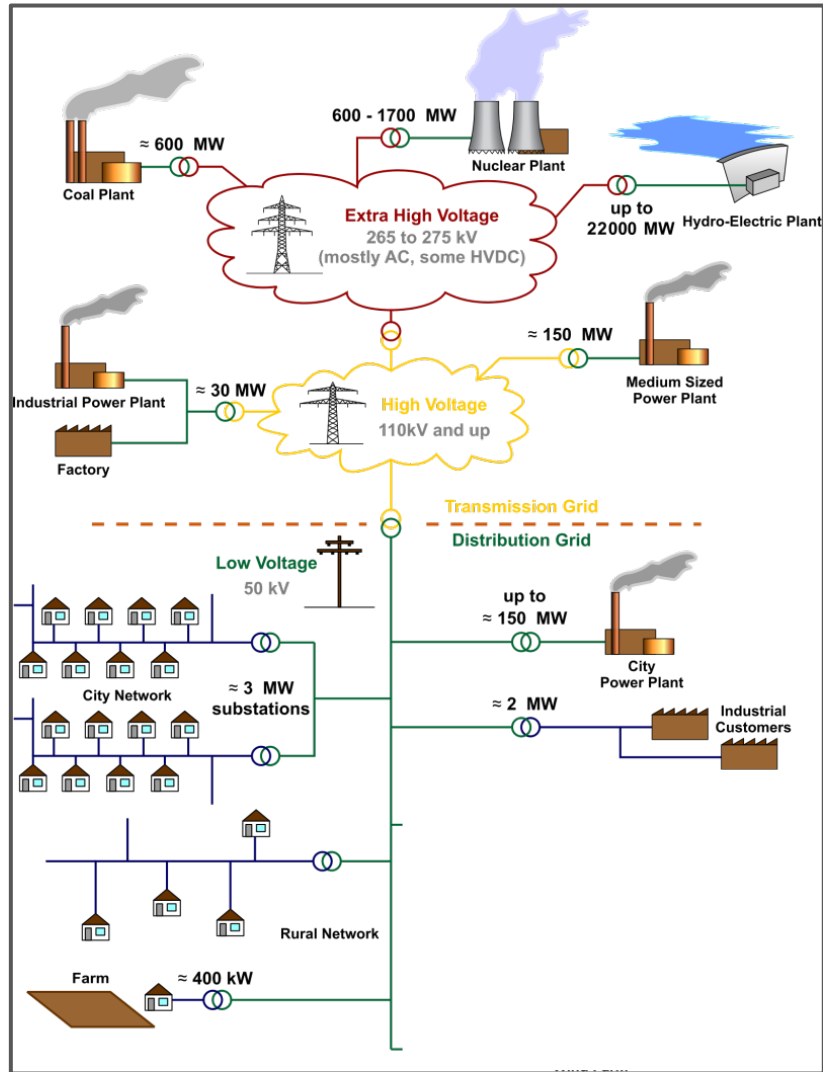
A. Graham Bell (1847 – 1922)



First Utility (59cust.)

Thomas Edison (1847 – 1922)

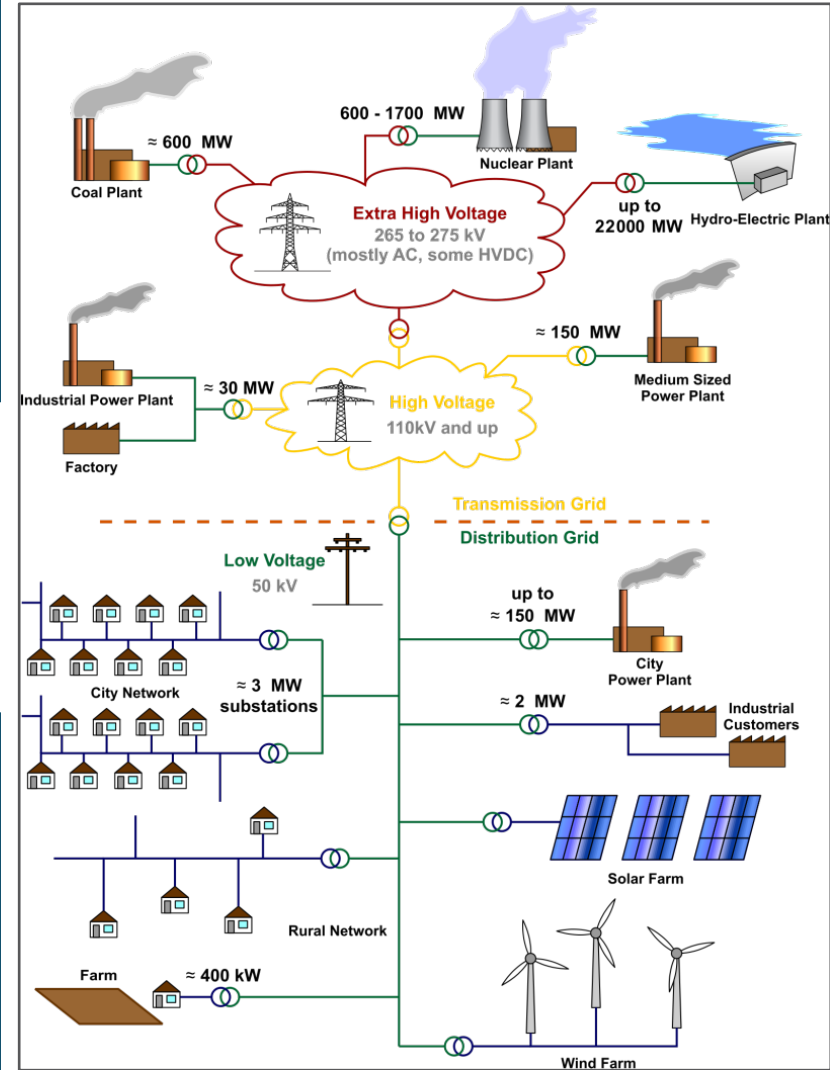
WHAT KIND OF GRID TRANSITION IS NECESSARY?



LOWER
↙
**TRANSMISSION
GENERATING
RESOURCES**

Grid
→
Transition

INCREASE
↘
**DISTRIBUTION
GENERATING
RESOURCES**



CALIFORNIA'S NEEDS & TARGETS

60% RENEWABLE BY 2030 & 100% DECARBONIZATION BY 2045

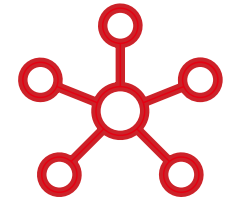
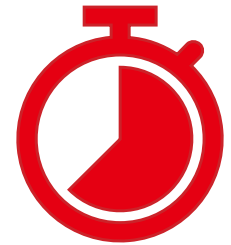
Advancing the use and availability of renewable energy is critical to achieving California's ambitious climate change goals. California's load-serving entities are required to increase their procurement of eligible renewable energy resources to 60% of retail sales by 2030, with the electricity sector targeting 100% renewable and zero-carbon resources by 2045.

DECENTRALIZED & DISPATCHABLE CLEAN POWER

Solar on rooftops are well served and continuously growing. Large utility-scale is providing clean power in south and central CA. Distribution-connected clean power generation combined with energy storage can maximize **grid reliability** for the whole community. But this market is underserved, and current projects are overpriced. Energy storage is needed to support the continued integration of renewables.

PUBLIC SAFETY POWER SHUTOFFS & RECOVERY AFTER DISASTERS

Recent rolling blackouts and natural disasters like wildfires create a big challenge for the community and all stakeholders. Blackouts need to be prevented, and quick recovery after disasters is crucial.



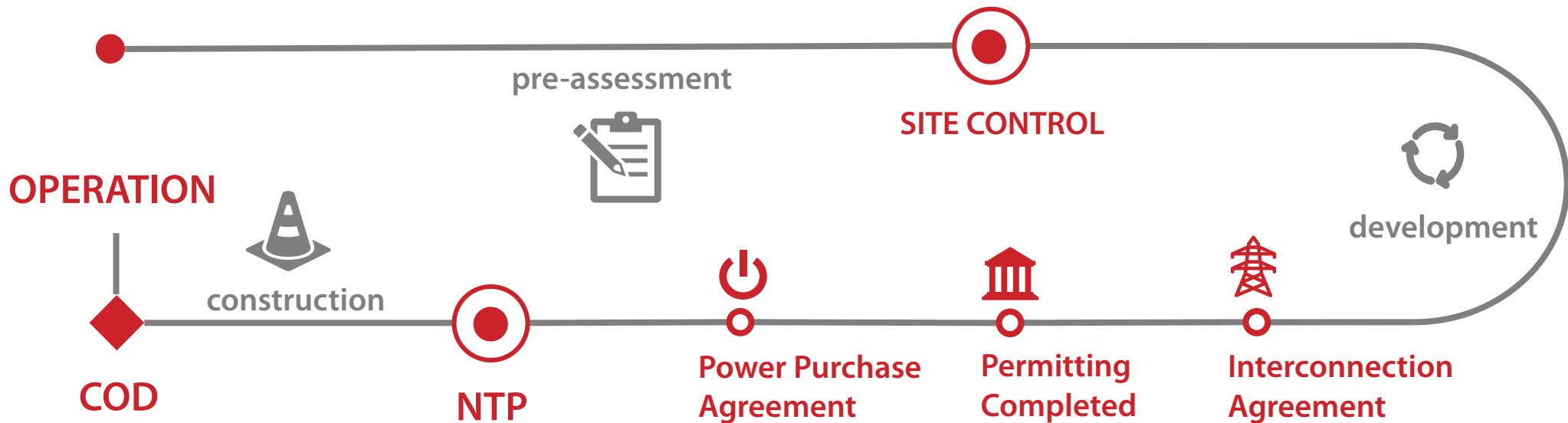
DESIGN-BUILD-OWN END-TO-END STRATEGY

Renewable America has a differentiated end-to-end strategy to develop greenfield Solar+Storage projects with a strong in-house capabilities for strategically located solar plus storage, and multi-customer community microgrids projects:

Supply of dispatchable renewables from our projects located in sensitive areas and disadvantaged communities:
Solar + Storage



Demand from local business, municipalities, corporate, government: **Distributed Energy Resources (DER) in distribution systems** through **resilient microgrids**



RAPID DEPLOYMENT OF DISPATCHABLE DER

10 MW to 20 MW DEVELOPED IN 3 TO 6 YEARS



FAST TRACK ALLOWS 1MW TO 4MW DEVELOPED IN 9 TO 17 MONTHS



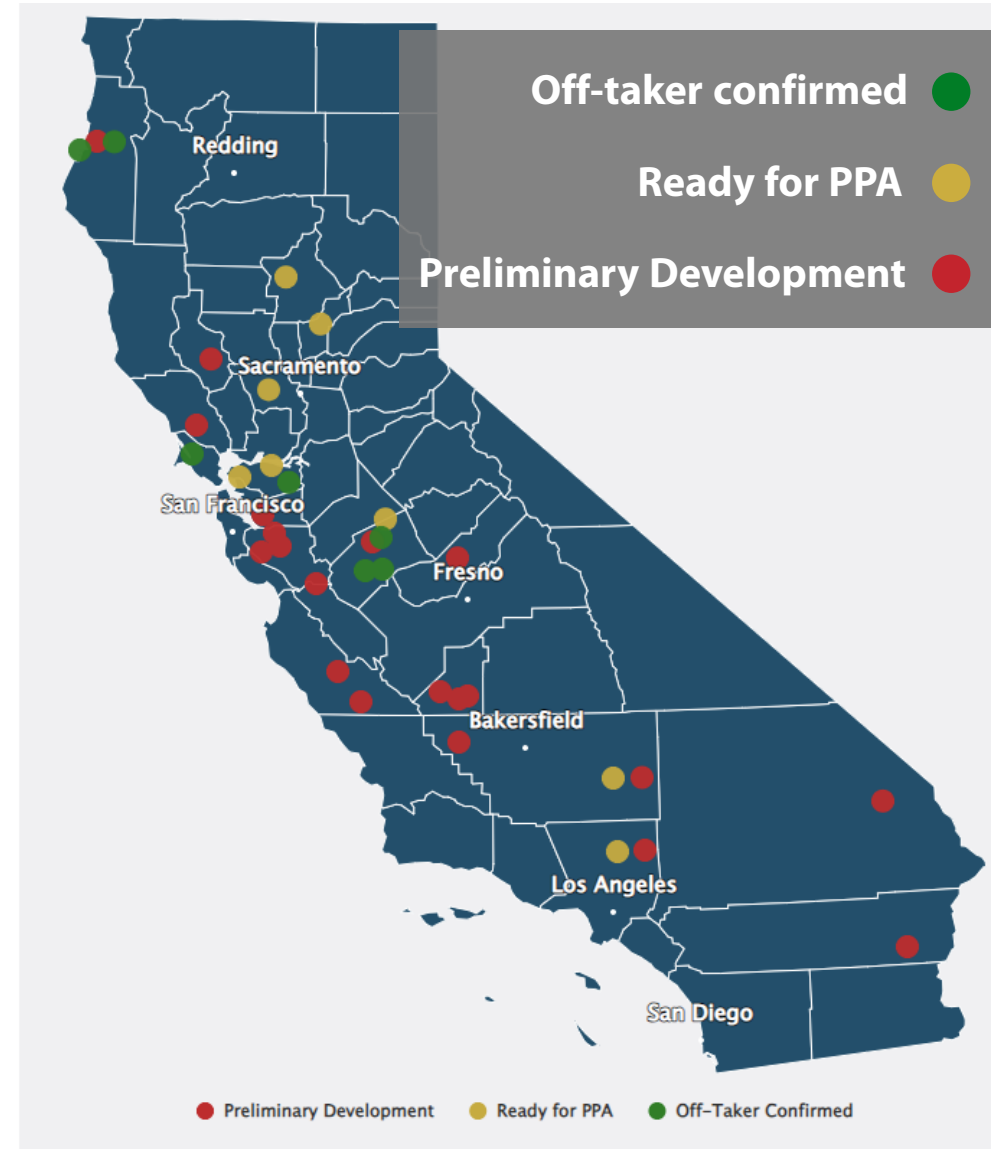
PROJECT PIPELINE

Renewable America has over 268 megawatts (MW) of solar and 597 megawatt-hours (MWh) energy storage projects under development throughout California. Our projects are strategically located to provide maximum benefit to the region, while also meeting the community's demand needs.

- ✓ 5,000+ parcels assessed
- ✓ 1,000+ landowners qualified
- ✓ 40+ projects under development

SOLAR 320MWdc

STORAGE 680MWh



Last updated June 7, 2023

OUR INNOVATION



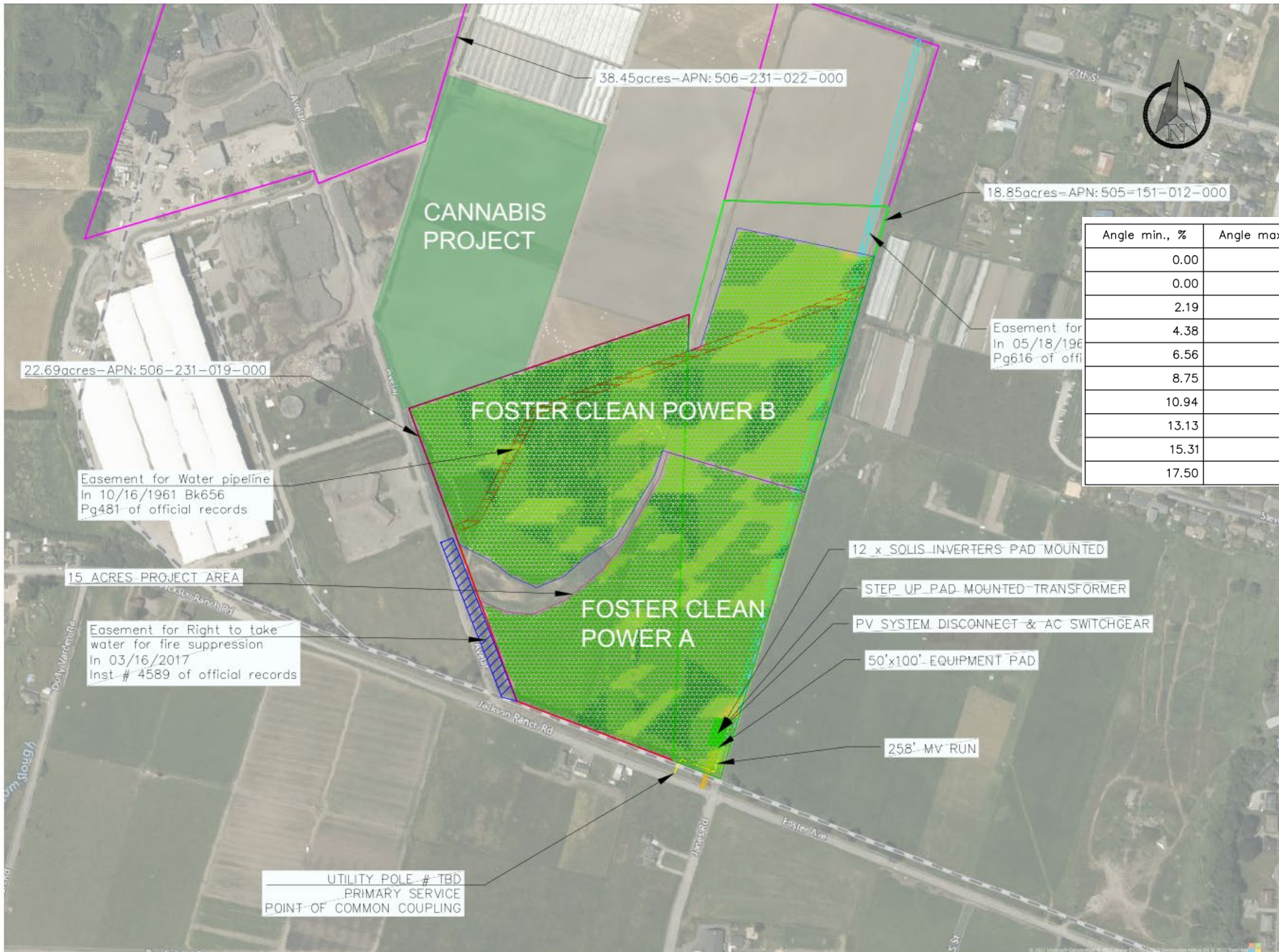
IMPACTS ON THE GROUND

- Structure is optimized through many levels of Engineering to minimize grading impacts
- Pile Driver machine can just the piles in the ground without any use of concrete to build foundation





Angle min., %	Angle max., %	Distribution, %	Color
0.00	0.00	17.27	
0.00	2.19	58.03	
2.19	4.38	24.16	
4.38	6.56	0.35	
6.56	8.75	0.18	
8.75	10.94	0.00	
10.94	13.13	0.00	
13.13	15.31	0.00	
15.31	17.50	0.00	
17.50	142.81	0.00	



NOTE:
DRAWINGS ARE FOR PRELIMINARY
USE ONLY.

NO.	TITLE	DATE
0.	PRELIMINARY LAYOUT	27-Jun-22

PROJECT NAME:
FOSTER CLEAN POWER A

ENGINEER STAMPING:

LOCATION:
Foster Ave, Arcata, CA
9552

POI GPS COORDINATES:
40°32'52.31"N
124°16'2.53"W

DRAWING TITLE:
N/S TERRAIN

AUTOCAD FILE NAME: 220627-RNA-FOST-A-4448INDG-LAYOUT	SHEET: TERRAIN
PLOT FILE NAME: 220627-RNA-FOST-A-4448INDG-LAYOUT	PLOT DATE: 27-Jun-22
DRAWN BY: UR	CHECKED BY: SCALE: 1"= 150'
	PLOT TIME: 14:01

A photograph showing a field of yellow and purple flowers in the foreground, with solar panels visible in the background under a blue sky. The solar panels are tilted and supported by metal frames. The flowers are in various stages of bloom, with some showing dark centers.

BENEFITS OF POLLINATOR HABITATS

Pollinators are essential to ecosystems and agriculture. Together, pollinators and solar can help combat climate change and make renewable energy affordable for all.

POLLINATOR HABITAT FRIENDLY ACTIVITY

The proposed project will be considered a “pollinator friendly habitat”. Attracting and maintaining beneficial organisms (pollinators) for crop production is vital to sustainability and thriving agriculture. Including the Pollinator habitat crops/vegetation that attracts native species of pollinators will benefit all the adjacent communities and crop production properties in the community.



PLANNED STRUCTURE AND SOLAR PANELS

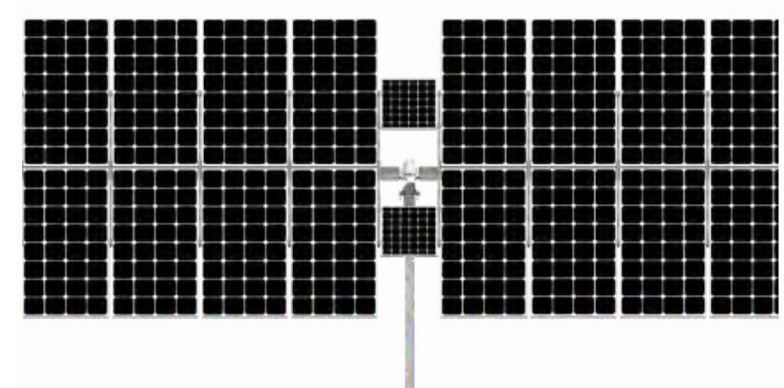
- Our planned structure is following the sun with starting in the morning facing to the east and rotating over one axis for facing to the west in the later afternoon
- Our planned solar panels are made from highly purified crystallin silicon and are free from any toxic chemicals

Single Axis Tracking system

with one module vertical



with two module vertical



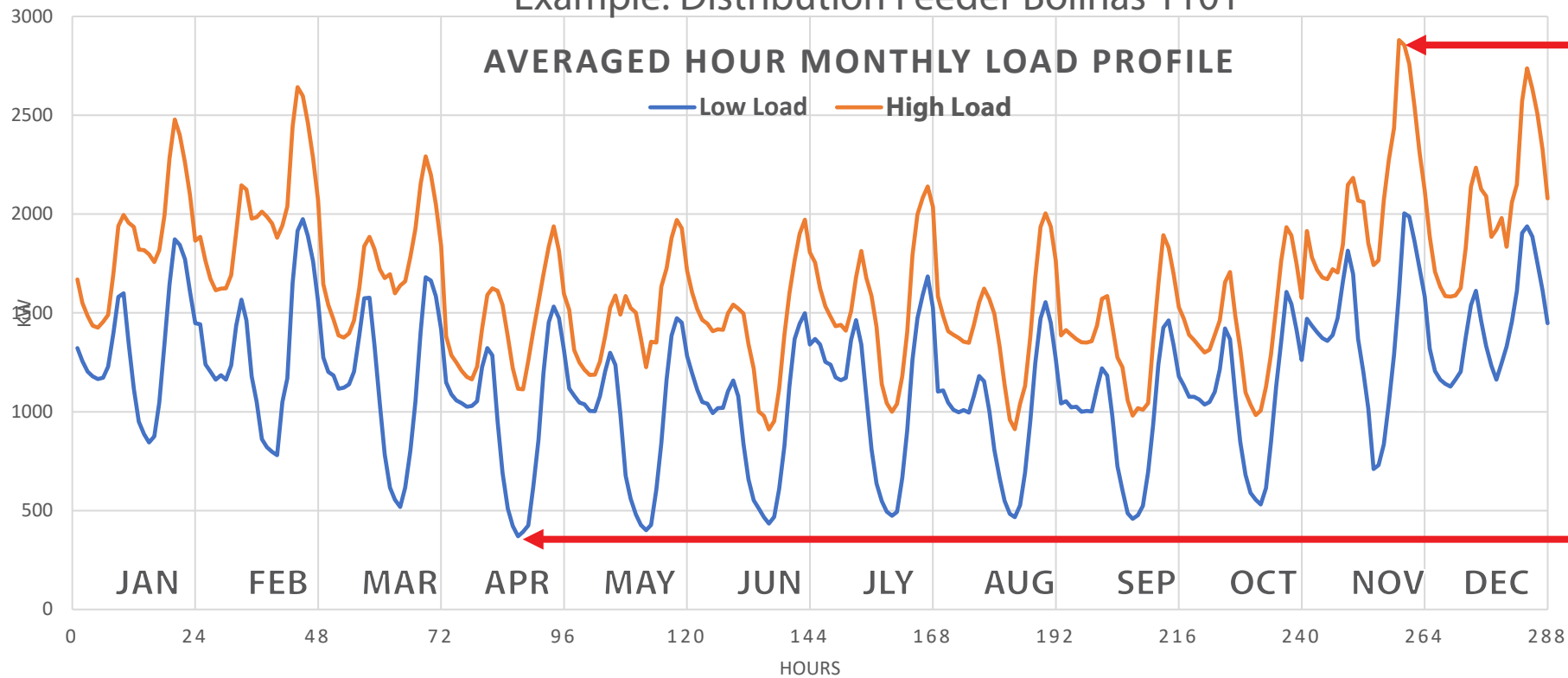
EXAMPLE: FULL/PARTIAL FEEDER MICROGRID

PV
3
MW

BESS
1.25
MW

BESS
5
MWh

Example: Distribution Feeder Bolinas 1101



MAX
2,855
kW

LOW
370 kW

EXAMPLE: SINGLE CUSTOMER MICROGRID

DEVELOPER	LSE
Revenue Diversification: Fixed PPA, Ancillary Services; Energy Arbitrage/Frequency Regulation	Fulfillment of Energy Procurement Targets, RA obligation
<p>“Provide resilience to critical community services”</p> <p>“Provide local benefits via renewable energy development (create jobs, keep energy \$\$\$ local, increase energy security, reduce price volatility, increase local control & ownership)”</p> <p>“Reduce greenhouse gas emissions”</p>	

**PRE
\$291K
PCIA**

**POST
\$76K
PCIA**

**60% Customer Bill
Reduction with 73% PCIA Reduction!**

Time Periods Bill Ranges & Seasons	Energy Use (kWh)				Max Demand (kW)			Charges				
	Peak	Part-Peak	Off-Peak	Super Off Peak	NC / Max	Peak	Part-Peak	Other	NBC	Energy	Demand	Total
1/28/2020 - 2/28/2020 W1	106,825	0	185,768	0	1,196	0	0	\$1,400	\$13,287	\$30,812	\$23,119	\$68,618
2/28/2020 - 3/28/2020 W1/W2	29,426	0	271,514	-178,171	1,250	0	0	\$1,310	\$12,051	\$18,565	\$24,128	\$56,054
3/28/2020 - 4/28/2020 W2	-17,142	0	291,397	-158,887	1,496	0	0	\$1,400	\$13,256	\$15,388	\$28,918	\$58,962
4/28/2020 - 5/28/2020 W2	-33,288	0	211,729	-204,700	1,190	0	0	\$1,355	\$10,758	\$3,475	\$23,003	\$38,590
5/28/2020 - 6/28/2020 W2/S	-73,486	-64,003	146,918	-29,333	1,380	688	1,348	\$1,400	\$11,031	-18,739	\$28,272	\$21,964
6/28/2020 - 7/28/2020 S	-55,686	-72,951	210,895	0	1,461	1,214	1,374	\$1,355	\$12,305	-8,215	\$32,314	\$37,759
7/28/2020 - 8/28/2020 S	-13,093	-50,542	264,304	0	1,489	1,403	1,434	\$1,400	\$14,127	\$13,630	\$33,378	\$62,535
8/28/2020 - 9/28/2020 S	-12,180	-49,583	276,643	0	1,547	791	1,353	\$1,400	\$13,838	\$15,236	\$32,887	\$63,361
9/28/2019 - 10/28/2019 S/W1	56,242	-4,704	176,851	0	1,339	839	1,135	\$1,355	\$12,978	\$23,538	\$25,911	\$63,783
10/28/2019 - 11/28/2019 W1	122,901	0	209,467	0	1,253	0	0	\$1,400	\$13,942	\$35,062	\$24,220	\$74,625
11/28/2019 - 12/28/2019 W1	130,354	0	303,216	0	1,343	0	0	\$1,355	\$14,602	\$44,561	\$25,960	\$86,478
12/28/2019 - 1/28/2020 W1	101,303	0	258,079	0	1,330	0	0	\$1,400	\$13,700	\$36,671	\$25,709	\$77,480
Totals:	342,176	-241,783	2,806,781	-571,091	-	-	-	\$16,530	\$155,876	\$209,984	\$327,819	\$710,208



THANK YOU!

For further information please visit our website

www.renewam.com or email me at ardi@renewam.com