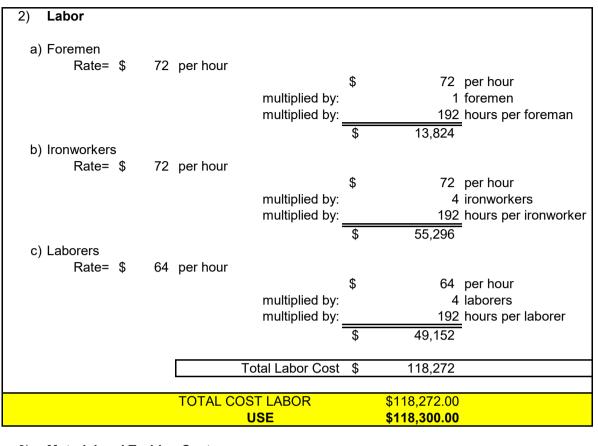
Borrego Solar Wind Project - 411 Reynolds Road, Glen, NY Turbine Construction Costs April 7, 2022

Item 1- Turbine Assembly and Construction Costs	
A - Mobilization to Site	
1) Mobilize 350 Ton Crane Rate= Add: Travel Mileage (40%) Add: Assembly/Knockdown Rate= \$ 80 per hour	= \$ 20,000 each \$ 8,000 each
multiplied by: multiplied by:	/:8 hours per man
350 Ton Crane Subtotal:	\$ 3,840 I: \$ 31,840
2) Mobilize Second Crane 100 ton Rate= Add: Travel Mileage (40%) Add: Assembly/Knockdown Rate= \$ 80 per hour	= \$ 17,500 each \$ 7,000 each
Rate= \$ 80 per hour multiplied by: multiplied by:	
Secondary Crane Subtotal:	l: \$ 27,060
 Mobilize Additional Equipment Rate= (Loader, Excavator, Service Trucks) 	= \$ 20,000 Lump Sum
Add: Travel Mileage (40%) Add: AssemblY Rate= \$ 80 per hour	\$ 8,000 Lump Sum
multiplied by: multiplied by:	
Additional Equipment Subtotal:	· · · · · ·
TOTAL COST MOBILIZATION - ITEM A USE	4 \$88,820.00 \$88,900.00

B - Installation/Construction of Turbine	
 Equipment a) Lift/ Erection Crane 	
350 Ton Crane - 200 ft Boom & Jib Extension Rate adjusted to include operator and oiler Rate= \$ 7,500 crew & equipment per day	\$ 7,500 per day
Erect Turbine Structure - 394 feet or 20 sections Install 1.5 sections per day or 14 days Install Nacell and Hub use 5 days Install Blades use 5 days Total 24 days per turbine	
multiplied by: Total Cost	\$ 24 days 180,000
Operating Costs Rate= \$ 212 per hour (adjusted) multiplied by: Total Cost	\$ 212 per hour 192 hours 40,704
Crane 1 Subtotal:	\$ 220,704
b) Secondary Crane	
100 Ton Crane - 60 ft Boom Rate adjusted to include operator Rate= \$ 5,700 crew & equipment per day multiplied by:	\$ 5,700 per day <u>24</u> days 136,800
Operating Costs Rate= \$ 113 per hour (adjusted) multiplied by:	\$ 113 per hour 192 hours
	\$ 21,696
Crane 2 Subtotal:	\$ 158,496

c) Front End Loader			
Front end loader Rate adjusted to include operator			
Rate= \$ 1,930 crew & equipment per day			
	\$	1,930	per day
multiplied by: 			days
	\$	46,320	
Operating Costs			
Rate= \$ 113 per hour (adjusted)			
	\$		per hour
multiplied by: =	¢	21,696	hours
	φ	21,090	
Front End Loader Subtotal:	\$	68,016	
d) Excavator			
Excavator			
Rate adjusted to include operator			
Rate= \$ 2,350 crew & equipment per day	¢	2 350	per day
multiplied by:	\$		days
· · · · · · · · · · · · · · · · · · ·	\$	56,400	,
Operating Costs Rate= \$ 113 per hour (adjusted)			
	\$	113	per hour
multiplied by:	-		hours
	\$	21,696	
Front End Loader Subtotal:	¢	78,096	
From End Edader Subiotal.	Ψ	10,090	
e) Miscellaneous Equipment and Service Vehicles			
Use \$1,000 per day	۴	4 000	n en elevi
multiplied by:	\$		per day days
=	\$	24,000	,-
Miscellaneous Equipment Subtotal:	\$	24,000	
TOTAL COST EQUIPMENT		\$549,312.00	
USE		\$549,400.00	



3) Material and Turbine Cost

Material and Tubine Costs were provided by Borrego	\$3,750,000.00
TOTAL TURBINE AND ERECTION COSTS	\$4,417,700.00
USE	\$4,417,700.00

Item 2- Demobilization Costs

\$ \$	20,000 each 8,000 each
\$	80 per hour
	4 men 8 hours per man
\$	2,560
\$	30,560
\$	17,500 each
\$	7,000 each
\$	80 per hour
	3 men 8 hours per man
\$	1,920
\$	26,420
\$	20,000 Lump Sum
\$	8,000 Lump Sum
¢	80 per hour
•	3 men
-	8 hours per man
·	1,920
\$	29,920
	\$86,900.00 \$86,900.00
	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

Borrego Solar Wind Project - 411 Reynolds Road, Glen, NY Turbine Construction Costs April 7, 2022

Cons	truction Cost Summary		
	Item Description		Total Cost
1	Mobilization to Site	\$	88,900.00
2	Installation/Construction of Turbine	\$	4,417,700.00
3	Foundation Construction	\$	901,500.00
4	Excavation, Grading and Construction of Access Roads	\$	133,200.00
5	Electrical System and Interconnection	\$	295,000.00
6	Demobilization	\$	86,900.00
	TOTAL CONSTRUCTION COST USE	\$ \$	5,923,200.00 5,925,000.00

Borrego Solar Wind Project - 411 Reynolds Road, Glen, NY Foundation Construction Costs April 7, 2020

A - Mobilization to Site

- 1) Mobilize 1-1/2 CY Excavator Mobilization is included under Turbine Construction
- 2) Mobilize 2 1/2 CY Front end loader Mobilization is included under Turbine Construction
- Mobilize Additional Equipment Mobilization is included under Turbine Construction

B - Foundation Construction					
1) Excavation					
Calculations based on produced Volume of excavation requ 565 CY / 50 CY per day =	uired for founda	tion = 565 CY	vato	r	
1-1/2 CY Excavator Rate adjusted to include 1 c	operator				
Rate= \$ 2,350.00	•	multiplied by:	\$	2,350.00 12 28,200.00	per day days
Operating Cost Rate= \$ 113.00	per hour	multiplied by:	\$	113.00	per hr hours
2-1/2 CY Front End Loader Rate adjusted to include 1 c	operator				
Rate= \$ 1,930.00	•	multiplied by:	\$	1,930.00 12 23,160.00	per day days
Operating Cost Rate= \$ 113.00	per hour	multiplied by:	\$ \$	113.00	per hr hours
	Tota	l Equipment Cost	\$	73,056.00	

2) Off-Site Material Disposal
a) Excavator and front end loader costs included in above calculations
b) Trucking Costs for Material Disposal
14 CY Dump Truck- 20 Miles Round Trip, 3 loads/day each truck 1 truck = 4 loads in 8 hour period Labor Crew = 1 truck driver Rate= \$ 160.00 per hr operating
565 CY of excavation required for foundation construction. Assume 90% of excess materials to be trucked off-site and disposed of 565 CY x 0.90 = 509 CY for disposal
509 CY / 14 CY per load = 37 truck loads 37 truck loads / 3 loads per day = 13 days or 104 hours
Cost: \$ 160.00 per hr operating multiplied by: 160.00 per hr 104 hours \$ 16,640.00
Total Disposal Cost \$ 16,640.00
 Concrete Foundation Construction Calculated on Cubic Yard Dimensions Cubic yard price includes materials, installation, labor, reinforcement, formwork, finishing, curing and associated work
Foundation diameter at base 62'-0" Foundation diameter at top of haunch 26'-0" Foundation diameter at top pedestal 19'-0" Foundation height at main foundation 9'-6" Foundation height at pedestal 4'-9"
Volume of foundation truncated cone = 565 CY Volume of pedestal = 50 CY Total volume of concrete materials to be placed for foundation = 615 CY
Cost: 615 CY x \$1,300 per CY installed = \$799,500
Total Foundation Concrete Cost \$ 799,500.00

4) Additional Labor Costs Not I Additional Laborers:	ncluded Above		
Rate= \$64 per hour	laborers	2	
	multiplied by:	8	hrs per day
	total days	12	days
	total hours:	192	hours
	rate	\$64	per hour
	Total	\$ 12,288.00	1
[Total Additional Labor Costs	\$ 12,288.00	
OTALFOUNDATION CONSTSR	UCTION COST	\$901,484.00	
	USE	\$901,500.00	

Borrego Solar Wind Project - 411 Reynolds Road, Glen, NY Access Road Construction Costs April 7, 2022

Item 1	- Excavation, Grading and Construction of A	Access Road	
ע ר ב	Overall length of proposed access road = 2,600 Width of proposed access road = 12 feet Total Area of Access Roads = 31,200 sf Depth of Access Road = 13" or 1.1 feet Total CY of materials removed to construct acce		
2) E	Equipment		
F	140 H.P. Dozer Rate adjusted to include operator and hourly op Rate = \$275.00 per hour or \$2,200 per day	erating costs	\$2,200.00 per day
F	2-1/2 CY Front end loader Rate adjusted to include operator and hourly op Rate = \$255.00 per hour or \$2,040 per day	erating costs	\$2,040.00 per day
1	14 CY Dump Truck- 20 Miles Round Trip, 3 load 1 truck = 3 loads in 8 hour period Labor Crew = 1 truck driver Rate = \$160.00 per operating hour	ds/day each truck	
É	Costs Excavate and grade access road, removal and o Assume 250 feet per day construction average 2,600 feet / 250 feet per day = 10.4 days	disposal of excess materia Use 11 days	ıls
1	140 H.P. Dozer 11 days x @ \$2,200 per day =	\$24,200	
2	2-1/2 CY Front end loader 11 days x @ \$2,040 per day =	\$22,440	
1 1 3 3	Trucks 14 CY dump truck, 3 axle 1,275 CY of material to be trucked for disposal of 1,275 CY / 14 CY per truck load = 91 truck loads 91 truck loads/3 loads per day = 31 days equiva 31 equavilent loads /11 work days = 3 trucks pe 3 trucks per day x 8 hours each x 11 days = 264 264 operating hours x \$160 per hour =	s lent loads r day required	
	Equipment Subtotal	\$88,880	

3) Labor]
Additional Laborers:	Laborers:	2	
Installation of geotextile fabric	multiplied by:	_	hrs per day
Installation of geolexile lablic	multiplied by:		days
		ate: \$ 64.00	per hr
	Labor Subtotal:	\$ 11,264.00	perm
	Labor Subiolai.	φ 11,204.00	
Labor Subtotal		\$11,264	
4) Materials			
a) Stone/Gravel Materials Total CY of stone materials needed for const Cost per CY of stone material includes purch			
Stone materials required = 1,275 CY x \$17	/CY =	\$21,675.00	
 b) Geotextile Fabric Total area of geotextile fabric required = 31,2 Cost per SY of geotextile fabric includes pure 			
Geotextile fabric required = 3,500 SY x \$1.	75/SY =	\$6,125.00	
 c) Culvert pipes Assume 3 culvert crossings will need to be in Length each 25 LF Size 12" diameter HDPE 	istalled along access i	road	
Culverts 3 EA x 25 LF = 75 LF x \$70/LF =		\$5,250.00	
Material Subtotal		\$33,050.00	
Total Access Road Construction Cost		\$133,194.00	
	USE	\$133,200.00	

ELECTRICAL SYSTEM AND INTERCONNECTION COSTS

Borrego Solar Wind Project - 411 Reynolds Road, Glen, NY Electrical System and Interconnection Cost April 7, 2022

00 LF	
\$105,000 \$15,000	
\$75,000	
\$100,000	_
\$295,000	
\$295,000	
\$295,000	
	\$105,000 \$15,000 \$75,000 \$100,000 \$295,000 \$295,000

Borrego Solar Wind Project - 411 Reynolds Road, Glen, NY Electrical System and Interconnection Cost April 7, 2022

Costs shown are based on Federal Davis Bacon Wage Rates NY20200015 1/11/2022

1	Equipment Operator - 350 Ton Crane				
	Wages Fringes Workmans Comp (19%)	\$ \$ \$	44.80 25.15 8.51	per hr	
	Contractors OH&P (10%)	<u>\$</u> \$	78.46 7.84		
		\$	86.30	per hr	
	Use:	\$	87.00	per hr	

2	Equipment Operator -100 Ton Crane				
	Wages	\$	43.80	per hr	
	Fringes	\$	25.15		
	Workmans Comp (19%)	\$	8.32		
		\$	77.27		
	Contractors OH&P (10%)		7.72		
		\$	84.99	per hr	
	Use:	\$	85.00	per hr	

3	Equipment Operator - All other types				
	Wages	\$	40.80	per hr	
	Fringes	\$	25.15		
	Workmans Comp (19%)	\$	7.75		
		\$	73.70		
	Contractors OH&P (10%)	\$	7.37		
		<u>_</u>	04.07		
		\$	81.07	per hr	
	Use:	\$	82.00	per hr	

4	General Laborer					
	Wages	\$	28.25	per hr		
	Fringes	\$	23.74			
	Workmans Comp (19%)	\$	5.37			
		\$	57.36			
	Contractors OH&P (10%)	\$	5.73			

		\$	63.09	per hr
	Use:	\$	64.00	per hr
5	Truck Driver			
	Wages	\$	26.50	per hr
	Fringes	\$	25.56	
	Workmans Comp (19%)	<u>\$</u>	5.04	
		\$	57.10	
	Contractors OH&P (10%)	\$	5.71	
		\$	62.81	per hr
	Use:	\$	63.00	per hr
6	Ironworker			
	Wages	\$	30.75	per hr
	Fringes	\$	28.05	
	Workmans Comp (19%)	\$	5.84	
		\$	64.64	
	Contractors OH&P (10%)	\$	6.46	
		\$	71.10	per hr
	Use:	\$	72.00	per hr
7	Superintendent/Foreman			
1	Superintendant/Foreman			
ľ	Wages	\$	35.00	per hr
1	-	\$ \$	35.00 23.74	per hr
1	Wages	\$		per hr
I	Wages Fringes	\$	23.74	per hr
,	Wages Fringes	\$ \$	23.74 6.65	per hr
,	Wages Fringes Workmans Comp (19%)	\$ <u>\$</u> \$	23.74 6.65 65.39 6.53	per hr per hr

Costs from RS Means

Item		Description	Operating Cost Hr.	Rent/Day	Rent/Hour
	015433200150	Excavator 1 CY capacity	\$50.00	\$955.00	\$170.00
	015433200200	Excavator 1 1/2 CY capacity	\$65.00	\$1,176.00	\$212.00
	015433200347	5000 ft lb breaker	\$40.00	\$1,440.00	\$180.00
	015433204200	140 HP Dozer	\$40.00	\$1,320.00	\$205.00
	015433204650	2 1/2 CY front end loader	\$35.00	\$995.00	\$159.00
	015433205300	3 axle dump truck 16 ton	\$30.00	\$1,040.00	\$160.00
	015433601200	100 ton crane 60' boom	\$113.00	\$5,700.00	\$727.00
	015433601500	350 ton 200' boom jib extension	\$212.00	\$7,500.00	\$964.00

Trucking cost

	Based on round trip of 50 miles				
	4 hours for each	trip required			
	Cost for truck			\$520.00	
	Driver cost	\$63/hr x 8 hr =		\$504.00	
	Operating cost	\$30/hr x 8 hr =		\$240.00	
				\$1,264.00	per day or \$158.00/hr
			use	<mark>\$160 / hr</mark>	
		Cost per trip		<mark>\$640.00</mark>	
Excavato	costs				
	Cost for 1 1/2 CY	' excavator		\$1,176.00	
	Operator	\$82/hr x 8 hr =		\$656.00	
	Operating cost	\$65/hr x 8 hr =		\$520.00	
	Breaker	(optional) use \$300/day		\$2,352.00	per day or \$294.00 /hr
		· · · · ·		#204 / hr	

\$294 / hr

Front End Loader costs			
Cost for front er	nd loader		\$995.00
Operator	\$82/hr x 8 hr =		\$656.00
Operating cost	\$35/hr x 8 hr =		\$280.00
			\$1,931.00 per day or \$241.00/hr
		use	\$241.00
Dozer 200 HP costs			
Cost for dozer			\$1,320.00
Operator	\$82/hr x 8 hr =		\$656.00
Operating cost	\$40/hr x 8 hr =		\$320.00
1 0			

use

\$2,296.00 per day or \$287 /hr \$287 / hr