Picuris Pueblo 1MW Community-Scale Solar Array







Indian Energy

Ten percent of the energy resources in the United States are located on Indian lands, which together occupy land areas the size of Texas (5% of US land area).

Historically, these resources have been exploited for non-Indian use, with Indians receiving only a small portion of their potential benefit.

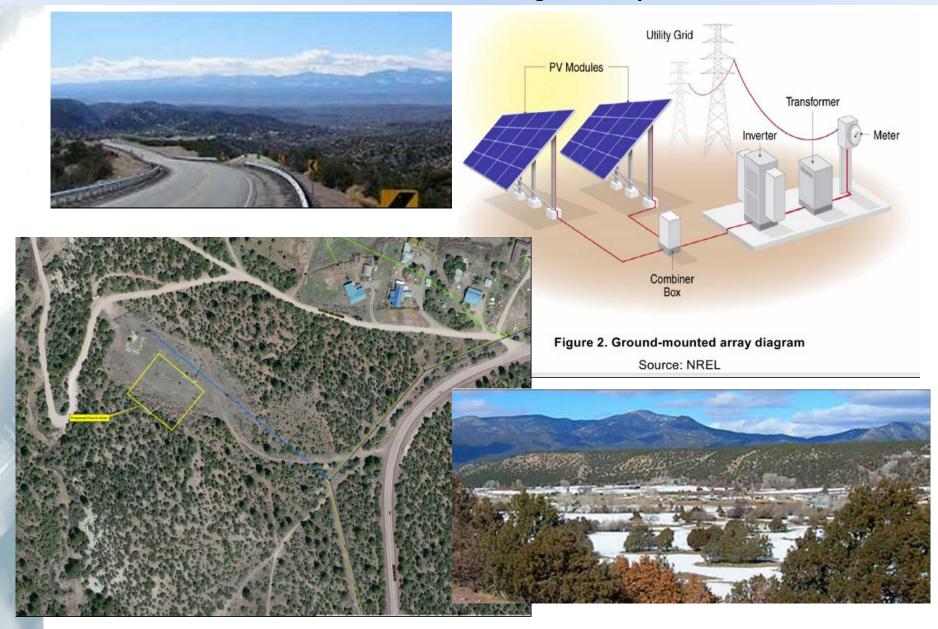
Indian Energy Development

Barriers:

- Capacity, Experience
- Commercialization
- Energy Pricing / Investment
- Federal Regulations
- Complex Project Options
- Funding, Tax Incentives
- PPA/ Interconnect

Advantages:

- RoW (Policy Act 2005 - Section 1813)
- Government / Business
- Funding
- Utility Formation
- Sovereignty / Self Regulation



Indian Energy

NPHA - Picuris Pueblo

- NPHA TDHE
- Housing and Economic Development
- Picuris Pueblo Community Energy Plan
- Smallest, Isolated and Most Economically Challenged of New Mexico's 19 Pueblos
- Progressive Government Community Support

What has come together

- Kit Carson Electric: Solar experience / PPA / Interconnect
- Site Three-phase power / Access / Insolation
- NPHA Tribal Commitment
- Funding
 - Enterprise Community Partners Grant
 - BIA Grant Pre-Construction
 - DOE START / Clean Energy in Indian Country
 - Investors PLR

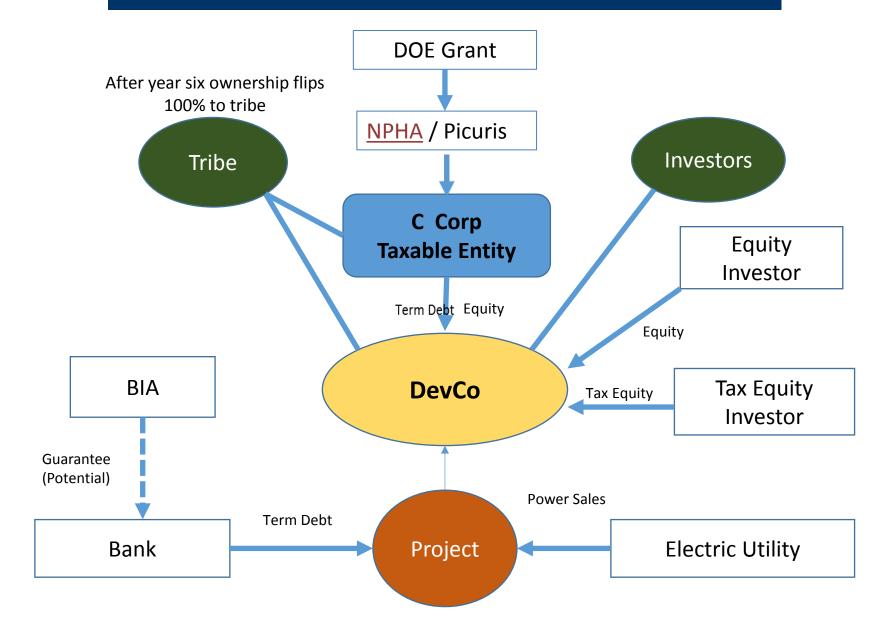
Picuris Project

```
1 MW – single axis tracking - 3,200 panels
6 to 7 acres – 1.2MW – DC
Total project gross revenue (25 yrs.) - $7M
Estimated construction cost – $2.2M
Estimated total project - $2.75M
PPA – grid tied – 25 years
Tribal power cost offset (100% solar
powered Tribe.)
  (Picuris Hotel Santa Fe – REC's)
  (Net-zero Fire Station)
  (Solar water pump)
```

Picuris Project Financing

PPA			Investment							
	25 year term		DOE grant							
	Attractive price per kWh	e per kWh Tax Equity Investor								
Capital Costs			Equity Investor							
	Ttl estimated Construction \$2.2M		Six-Year Buyout							
	(\$1.83 / kWh)	ı	Return							
	Dvlpmnt/ Site prep/Transaction/ Legal		ITC							
	Total Project esitimate - \$2.75M		Depreciation							
Expenses			Fees							
	O&M, G&A, Inverter Replace, Insurance		Before Tax return to tribe - approx \$5M							

Picuris 1 MW Solar Project – Proposed Partnership Structure



Activity Name	Resources Assigned	Resource Cost				Jul 16							
			29	5	12	19	26	3	10				
Commitment from Governor/ Tribe	NPHA, Tribe	\$0	-	KCEC	Kit	Careo	n Ene	rav					
Secure PPA	KCEC, NPHA	\$0		KCEC - Kit Carson Energy NPHA - Northern Pueblos Hou						sina			
Confirm Site / obtain maps/ EA	NPHA	\$0	-	Attny	- Atto	rney				3			
Secure Attornies/ accountant	NPHA	\$0				vestor		-					
Rsrch Tax Incentives / structure	Attny, NPHA	\$0	4000	NREL - Nat'l Renewable Energy Marron - Marron & Associates									
Apply for START Grant	NPHA	\$0	-	viaiio	11 - IVI	arron	0 A55	OCIAL	55	_			
Develop Initial Budget	NPHA	\$0	-							T			
Apply for BIA IEED Grant	NPHA	\$0	-							T			
Identify Potential Investors	NPHA	\$0	-							T			
Secure Council Resolution	NPHA, Tribe	\$0	-							Ť			
Apply for DOE grant	NPHA	\$0	-							T			
Secure Environmental firm	NPHA	\$0	-							T			
Prepare Project Summary	NPHA	\$0	-										
Secure Initial Investor	NPHA	\$0	-							T			
Visits to site	NPHA	\$0	-							Ť			
Prepare Project Pro-forma	Invstr, NPHA	\$0	-							T			
Initlal Agreements-Investor, KCEC	Invstr, KCEC, NPHA	\$0	-							T			
Site Study (Insolation)	NPHA, NREL	\$0	A							1			

	Activity Name	Resources Assigned	Resource Cost	Jun 16						Jul	16	
				29	5	12	19	26	3	10	17	
Ì	Phase II Type: Text, Stored: per Row			-								F
	Environmental			-								
	Complete new EA	Marron	\$15,500	-								
	Organize SPE's	Attny1, Invstr, NPHA	\$10,000			-	-			-		Г
	Complete Lease - BIA approval	NPHA	\$0			-				1		Г
	New Investor						9				i i	t
	Develelop structure / pr-formas	Invstr	\$0				-				Y	F
	Complete Interconnect Agrmnt	KCEC, Srngy	\$0			-				_	1	Г
	Complete LOI- EPC cost - DOE		\$0					-			1	
	Attorney					9					1	r
	Review Pro-forma - taxes	Acct, Invstr, NPHA	\$20,000			4						r
	Enter into contracts / agreements	Attny1, Invstr, SolPura	\$10,000								8	r
	Phase III											t
	Pre-construction			-								t
	Secure EPC	NPHA, Srngy	\$0				-	-				t
	Topo-survey	Cntrct1, EPC	\$2,500							-		t
	Geo-tech	Cntrct2, EPC	\$4,500				1			- 4		t
	Land prep		\$0				1				-	-
	Electrical	Cntrct3, EPC	\$15,500									-
	Structural	Cntrct4, EPC	\$16,000									1
	Design Pkge	Cntrct5, EPC	\$10,000									t
	Permits	NPHA	\$0	4								t
	Phase IV - Construction	the same of the sa	\$0									r