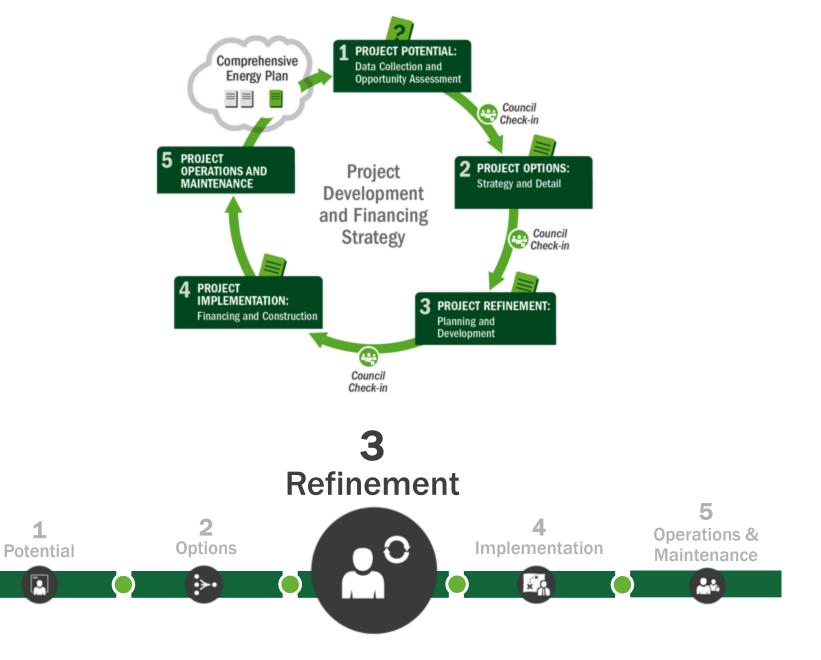
DOE OFFICE OF INDIAN ENERGY

Renewable Energy Project Financing

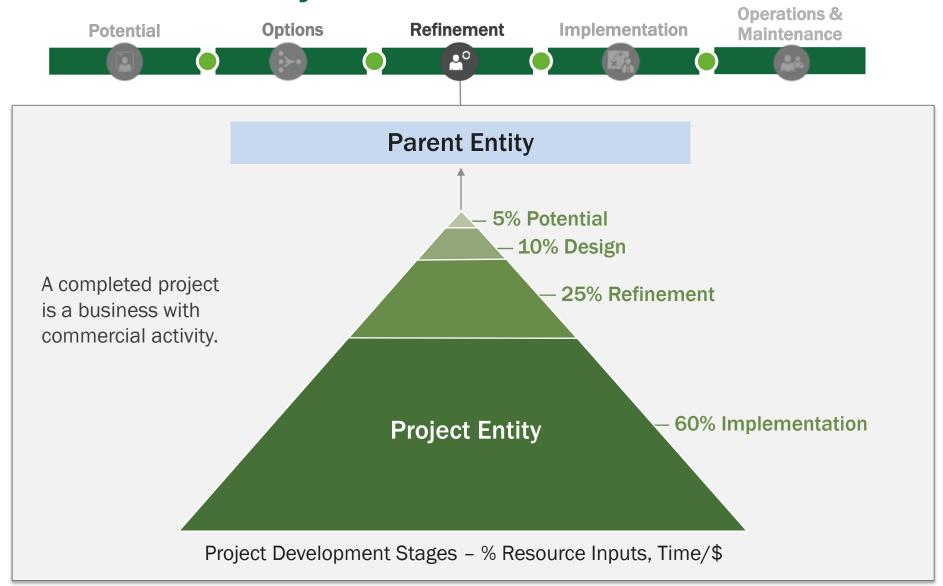
Colton Heaps
National Renewable Energy Laboratory



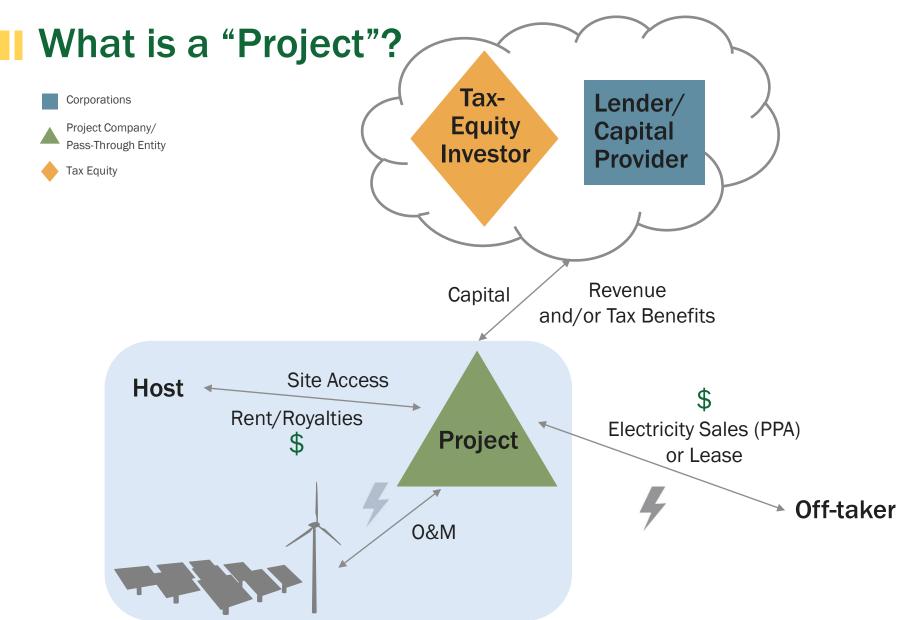




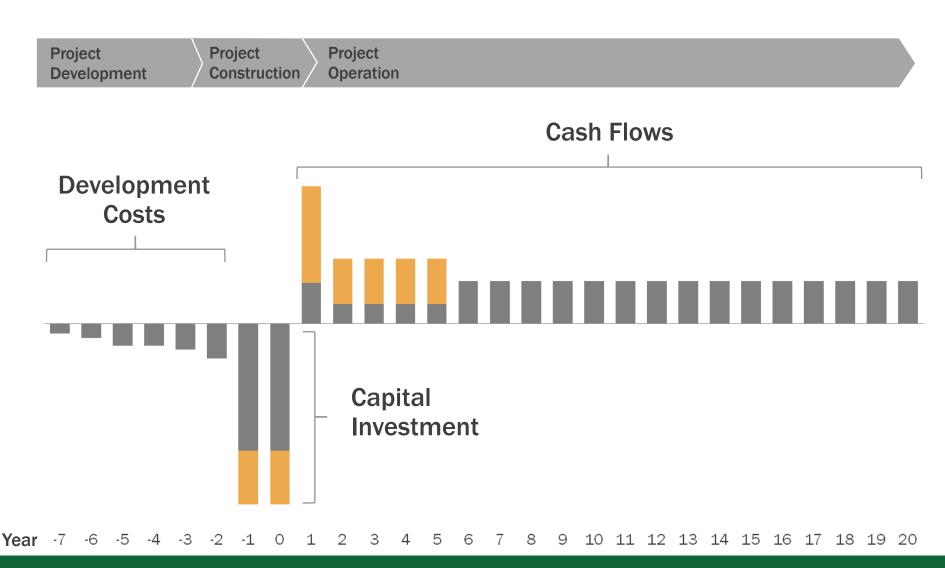
What is a "Project"?





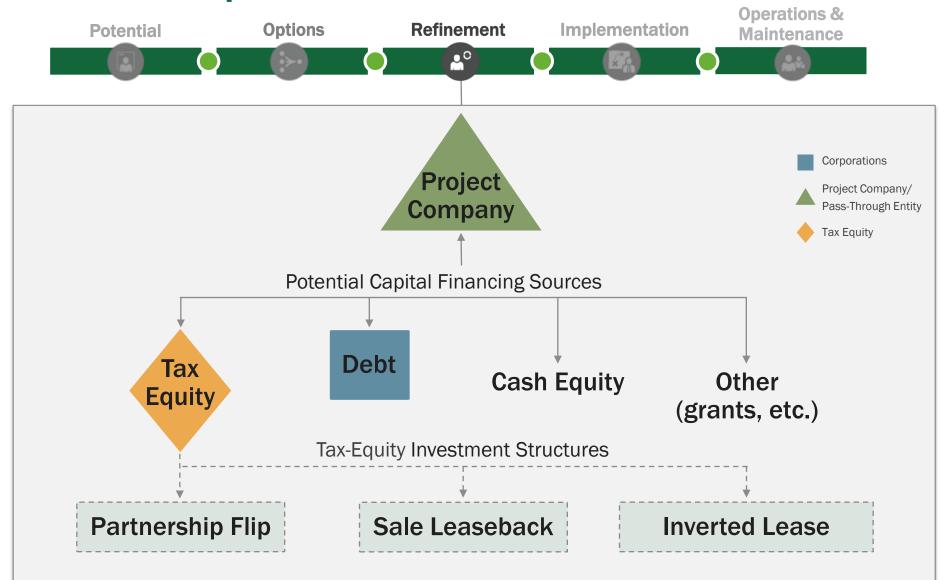


What is a "Project"?





Finance Options



Federal Tax Incentives

- Production Tax Credit (PTC)
- Investment Tax Credit (ITC)
- Modified Accelerated Cost Recovery System (MACRS) and bonus depreciation



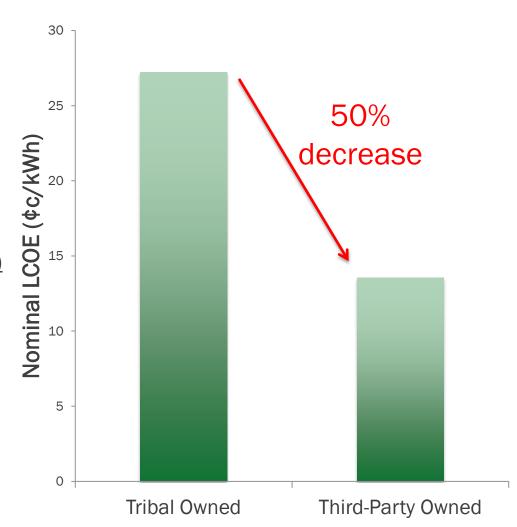
Third-Party (i.e. Tax Equity) vs. Tribal Ownership

<u>Tribal Owned (Without Incentives)</u>

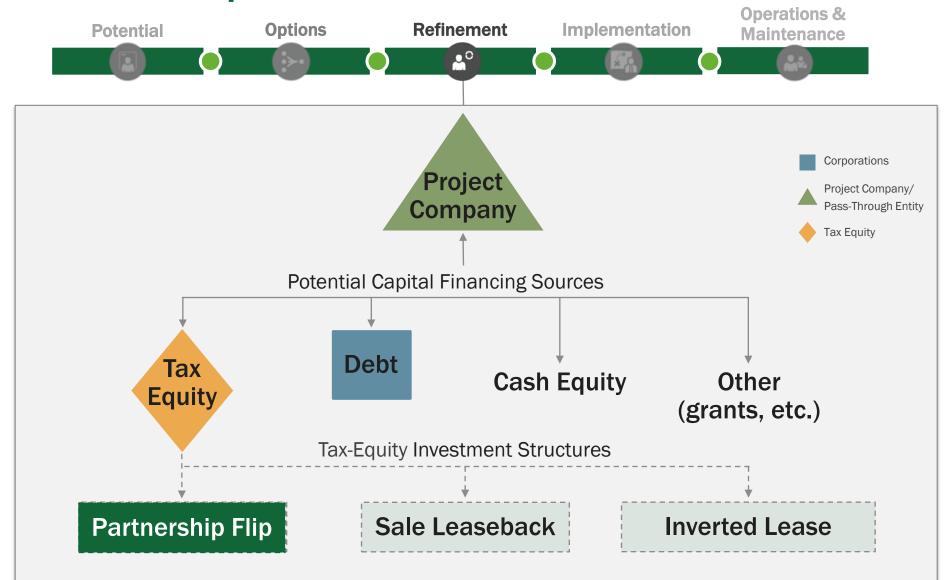
Metric	Base
Annual Energy	37,230,428
PPA price	25.36 ¢/kW
LCOE Nominal	27.22 ¢/kW
LCOE Real	22.11 ¢/kW
Internal rate of return (%)	12.00 %
Minimum DSCR	3.36
Net present value (\$)	\$ 2,386,955
Calculated ppa escalation (%)	1.00 %
Calculated debt fraction (%)	50.00 %
Capacity Factor	21.3 %
First year kWhac/kWdc	1,862
System performance factor (%)	0.82

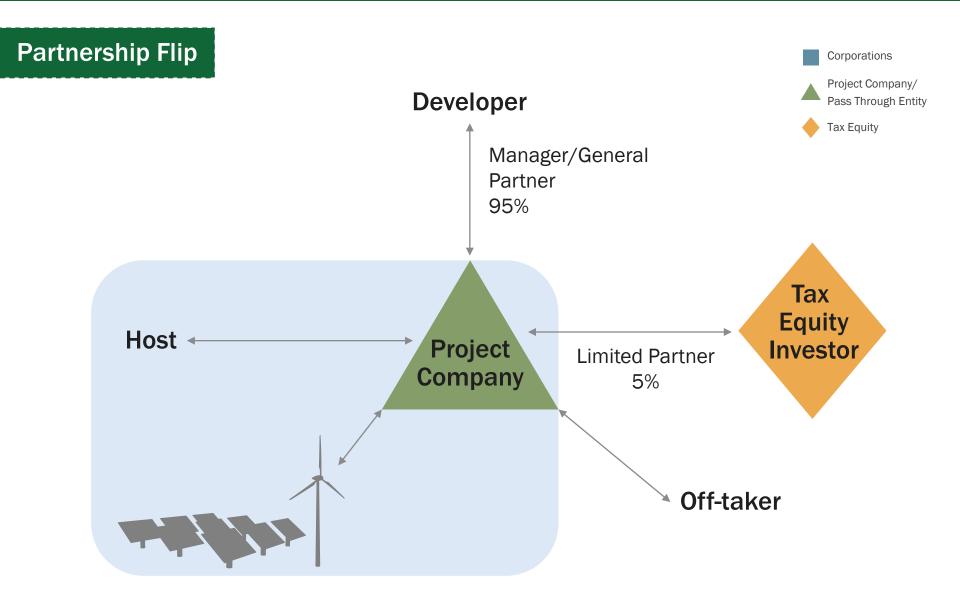
Third-Party Owned (With Incentives)

Metric	Base
Annual Energy	37,230,428
PPA price	22.62 ¢/kW
LCOE Nominal	13.55 ¢/kW
LCOE Real	11.00 ¢/kW
Internal rate of return (%)	21.11%
Minimum DSCR	1.57
Net present value (\$)	\$ 6,525,698
Calculated ppa escalation (%)	1.60 %
Calculated debt fraction (%)	50.00 %
Capacity Factor	21.3 %
First year kWhac/kWdc	1,862
System performance factor (%)	0.82

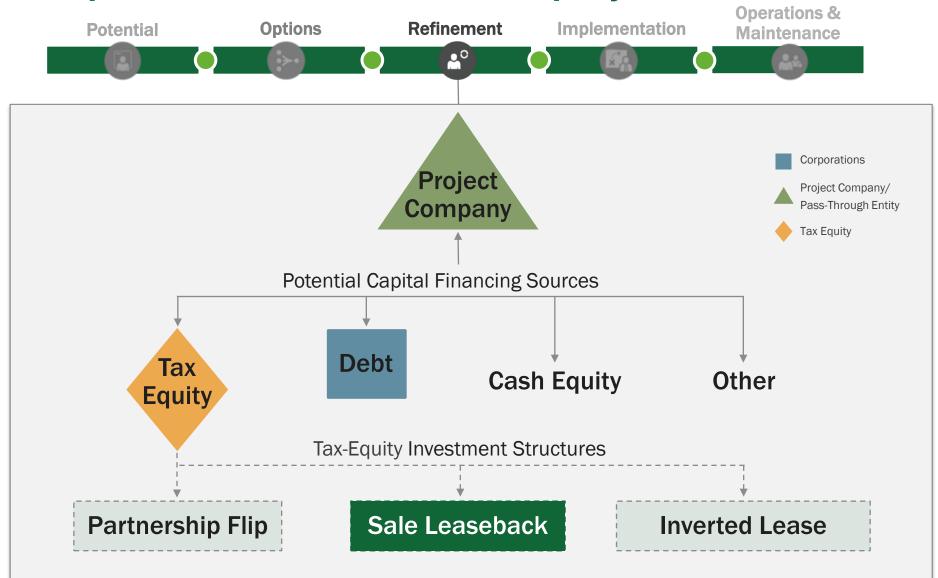


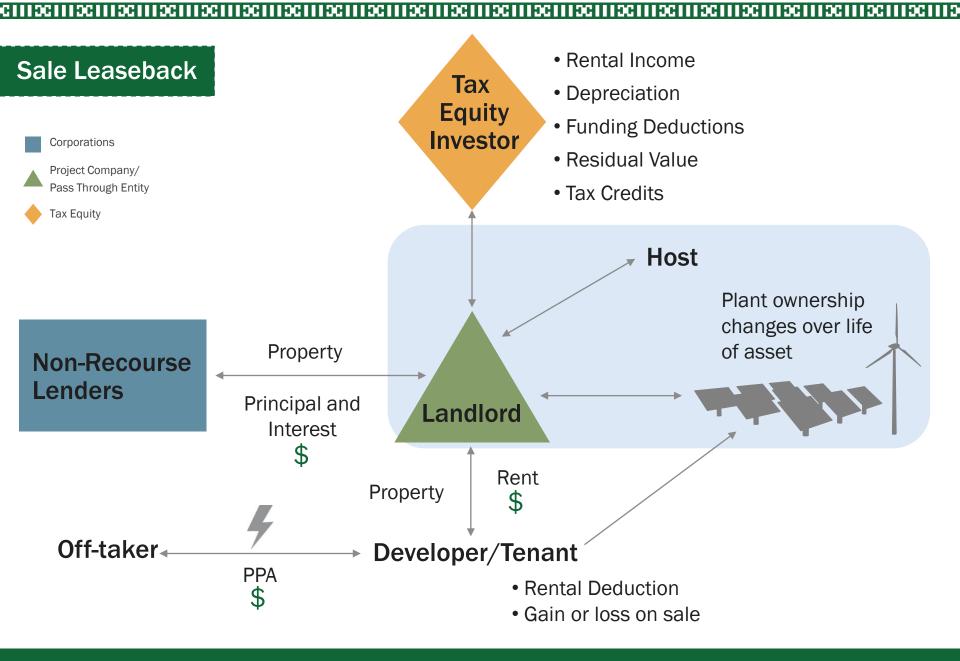
Finance Options





Capital Structure with Tax Equity





Capital Structure with Tax Equity

