IBERDROLA RENEWABLES

Developing a Solar Project March 24, 2015





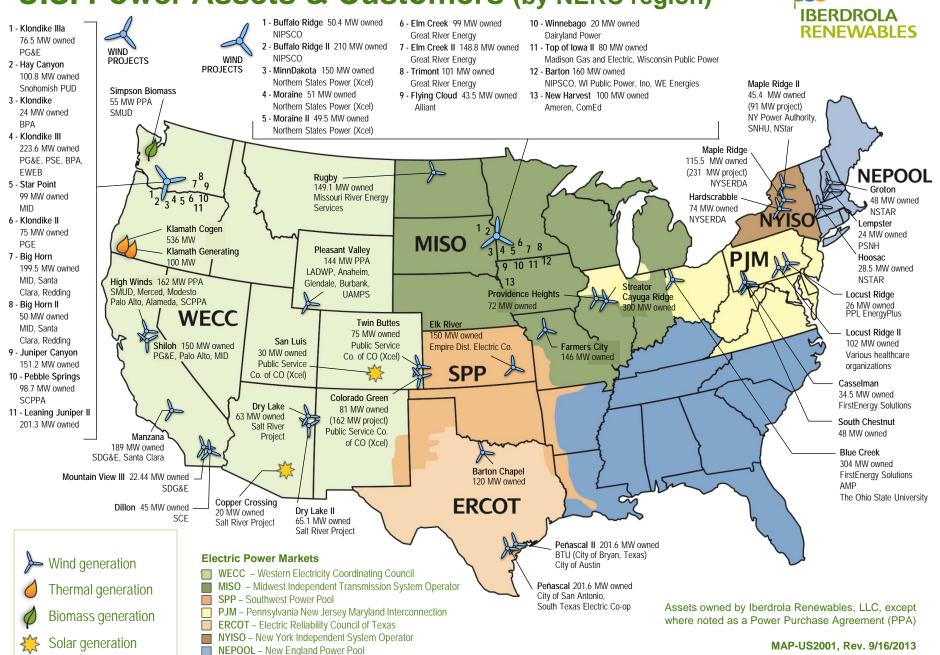
Iberdrola Renewables, LLC

A collection of exceptional assets...

#2 owner of wind projects in the U.S. with more than 5.7 GWs **US** Renewables owned and contracted \$9.5 billion of U.S. assets at over 50 installed plants 750+ employees at the end of 2014, compared with 12 in 1999 Solar & Power Wind **Biomass** 636 MW of CCGT & peaking capacity **536 MW CCGT** 50 MW Solar 5,700+ MW on the strategic CA-OR border 100 MW peaking 55 MW Biomass And clean gas generation Represents 39% of Iberdrola S.A.'s global wind capacity

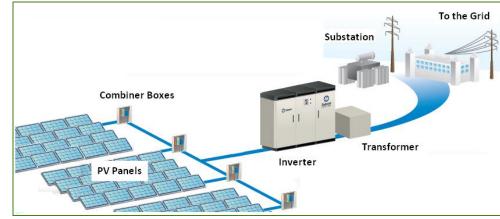
...focused on operational excellence and selective growth

U.S. Power Assets & Customers (by NERC region)





Solar project components









Solar Panels



Technology? DC to AC ratio?



Where to start



What is your strategy?

What is your business model? Developer, operator, builder, project flipper, finder.

- How are you going to get paid for the power you produce?
- Who is your customer?
- Why are they going to buy your power or project? Price, location, other factor.
- In which balancing authority/RTO/ISO is your project located?
- How many other projects are being developed around you and are in the interconnection queue?

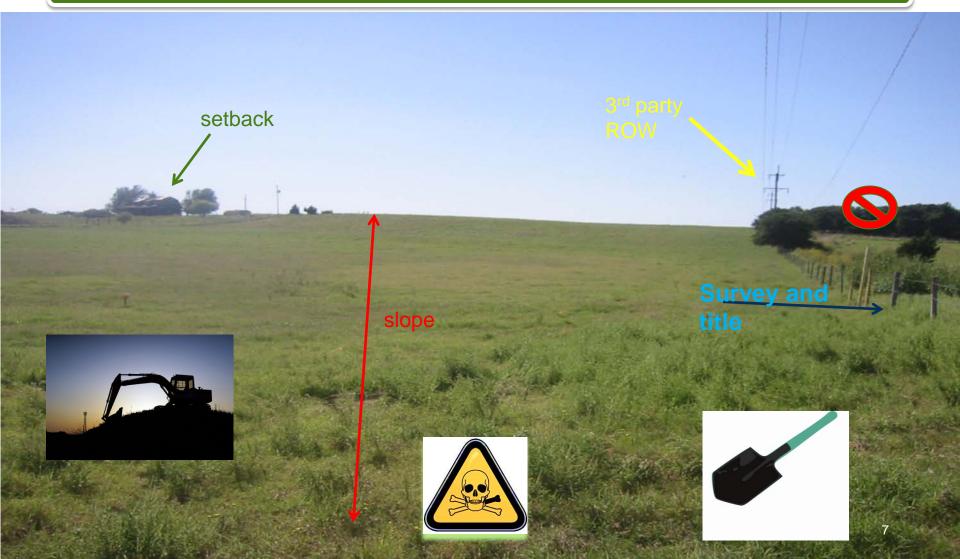
Do you have the credit to support the transaction?

Local, state and federal incentives?

Land



What part of the property is usable?



Interconnection and access



Find an electrical engineering firm

- With whom are you interconnecting: SRP, APS, TEP; Electric Cooperative, WAPA?
- Regulatory jurisdiction: Arizona Corporation Commission, municipality, FERC?
- Interconnection rules: data, models, costs, timeline, compliance.
- Transmission service? Do you need it, how much is it?
- Right-of-way to substation: where is your point of interconnection?



Due Diligence



Budgeting and Planning

Land

Financeable title

Permitting

- County zoning and permits
- State permits
- Federal NEPA and ROW

Studies

- Cultural
- Biological
- Wetlands or waters of the U.S. US Army Corps of Engineers

Engineering

- Drainage design/floodplains
- Geotechnical
- Design
- Electrical production: on site radiometer
- Site survey: contours, grade

Financing, Procurement



Who is paying for construction?

- Technology: module selection? Fixed or tracking? Energy yield?
- Procurement cycle: long-lead item purchase and delivery schedule?
- Return requirements of equity and debt?
- Bonds or grants available?
- Engaging 3rd parties for financing or project sale?
- Credit support: bond, letter of credit or cash.
- What contractual risks are your wearing and how much is it worth?
- Warranties: technology and the ones you are giving.
 - Contractual conditions precedent? Exit clauses?



Construction

EPC contractor and Logistics







- federal or county plan review/permits/fees
- traffic routing
- building permits \$\$
- six to nine months to build
- site clearing and grading moving earth \$\$
- install piers and panels geotech and slope
- connect circuits
- testing and commissioning



Questions?

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