Who is CarbonFree Technology?

• CFT is a renewable energy project developer
• CFT delivers turnkey solar projects
  – CFT performs technical, financial and legal due diligence
  – CFT puts the team together
  – CFT arranges project financing
  – CFT represents investors who will build, own and operate commercial solar installations for 15-20 years
Why is Financing important for Solar?

• Solar is about up-front capital cost
• Very small Operating & Maintenance cost
• 25+ year life expectancy
• Compare this to traditional power sources (ie. coal, gas, nuclear) with long term uncertainty in fuel and labor costs
What are the options for financing solar?

- Self funding
- Clean Renewable Energy Bonds (CREBs)
- Leasing
- Solar Services Agreements (aka PPAs)
- ???
What are the options for financing solar?

• Self funding
  – capital intensive
  – need appetite for tax incentives
  – you assume procurement and performance related risks (RFP, project management, maintenance, etc)
What are the options for financing solar?

• Clean Renewable Energy Bonds (CREBs)
  – allows you to borrow “cheap money”
  – still need outside assistance to issue bonds
  – you assume procurement and performance related risks
What are the options for financing solar?

• Leasing
  – Fixed payments regardless of system performance
  – Non-tax payers unable to take advantage of tax incentives
What are the options for financing solar?

• Solar Services Agreements (aka PPAs)
  – No need to raise money (no up front cost)
  – No need to identify system integrator/ install system
  – No need to Operate & Maintain PV system
  – Part of your energy costs have been fixed (made predictable) over the next 25 years
  – Currently the model used to enable ~70% of all commercial solar in the U.S.
Takeaways

• You can install a solar PV system with no impact on your construction/ capital budget

• Under certain circumstances, the risks associated with procurement, construction, maintenance performance are all borne by the project owner, NOT the building owner.

• The solar component of your electric bill will be predictable over the next 25+ years

• Solar can help you get those LEED points without the added construction costs!
ASU Solar Projects Developed by CarbonFree:

1) Apache Blvd Parking Structure (864kW)
2) Stadium Parking Structure (731kW)
3) Lattie Coor Hall (108kW)
Q&A

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