





## Corporate Procurement Activity

- Tech companies are leading the way due to high load at their data centers and ability to locate in markets with competitive markets (typically physical PPAs)
- Many "non-tech" companies are moving into direct procurement including Kaiser Permanente to General Motors to Ikea (typically VPPAs)
- The larger the company, the more likely they are to try the direct procurement route



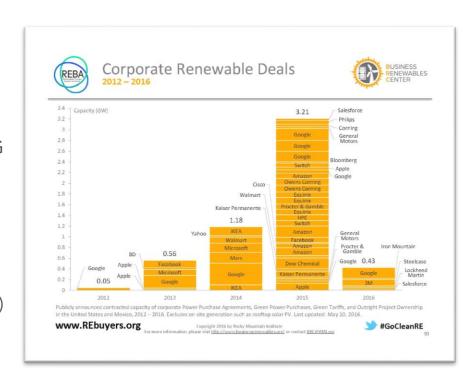




# C&I Renewable Energy Market is Growing

#### **Key Drivers**

- Competitive, investor, and shareholder pressure to reduce env/carbon footprint
- Corporate mandate to address climate/GHG
- Save money
- Hedge against volatile and uncertain electricity prices
- Brand strength
- Sustainable supply chain
- Regulatory uncertainty (e.g. price on carbon)
- Tax incentives (if tax investor/owner)







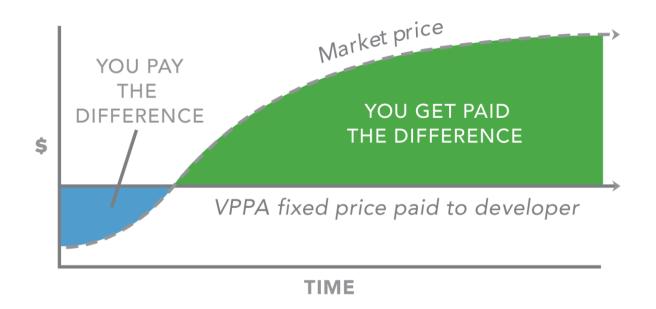
### Virtual PPA (VPPA): How It Works

- Customers continues to receive/pay for existing electricity service from utility or current retail energy provider
- 2. Customer enters a VPPA with developer to purchase power and RECs generated by a renewable energy project (does not take title to power)
- 3. Developer delivers and sells energy generated by the project into the market
- 4. Developer delivers RECs generated by the project to customer so they receive environmental recognition.
- 5. If market price for energy is \*lower\* than VPPA, the customer pays the developer the difference between the VPPA price and the energy market; if the market price for energy is \*higher\* than the VPPA, the developer pays the customer the difference.





#### **VPPA:** Financial Settlement







# VPPA: Key Considerations for C&I Segment

- Contract Structuring: seeking shorter term contracts ~12-15 years at longest
- Location: VPPAs will only work in organized markets (e.g. ISOs) where the ISO takes the power at liquid point/price.
- Price: contract price needs to approximate forward price curve (e.g. \$20/mwh in ERCOT); all about getting the RECs along with the energy hedge at minimum of break even
- Additionality: Most corporates want to be responsible for new projects coming onto the market but many are not willing to take market risk

