

Agenda

- Relevant incentives for district energy technology and projects
- Application tips and resources
- Financing options for public sector and non-profits



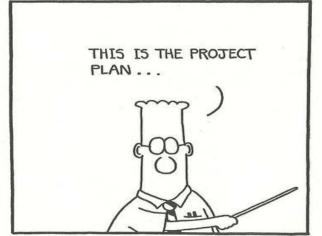


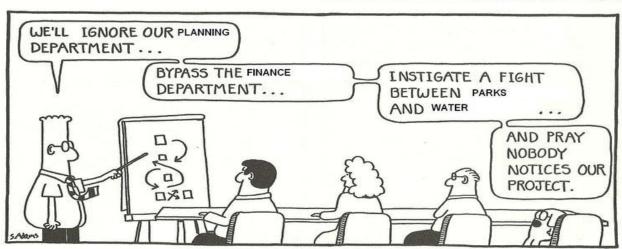
The Challenge

KNOWING THE ENEMY

THE COMPETITION, FIRST YOU MUST DEFEAT YOUR OWN COMPANY.







BUILD A BETTER LIFE BY STEALING OFFICE SUPPLIES Dogbert's Big Book of Business 33



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NICIPAL COMMERCIAL FEDE

The Challenge

Even if a distributed energy or district energy project pencils out...

- Positive life cycle cost
- Reduces GHG emissions and demonstrates environmental leadership
- Supports job creation and market development
- Achieves emissions compliance
- Hedges against financial risks of aging infrastructure
- Increases electric and thermal reliability and resiliency

...How does your CFO make it happen?







Federal Incentives

- Federal Funding Sources
 - » DOE, EPA, USDA, DHS, DOD, National Laboratories all have programs to support a wide variety of energy technologies and projects - R&D / Demo / Commercial
- Grants, Cost-Share Agreements and Cooperative Agreements
 - » up to 100% for analysis, modeling and testing
 - » up to 80% for R&D
 - » up to 50% for demonstration and commercial deployment





Federal Incentives – DOE Funding Outlook

DOE FY15 budget for clean energy programs - \$2+ Billion

No significant increases over 2014 funding

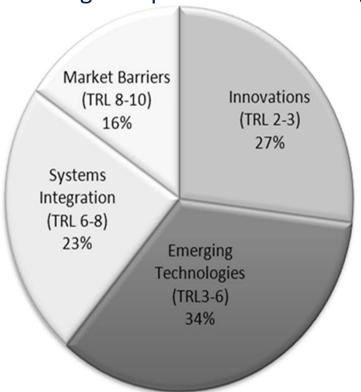
DOE FY16 budget request for clean energy programs - \$3+ Billion

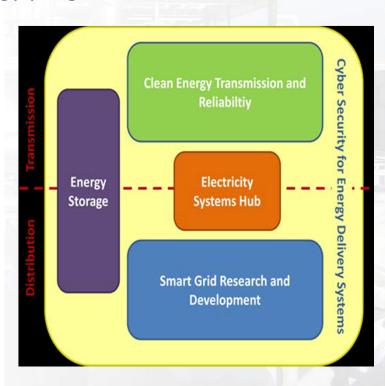


OE

FEMP

ARPA-E







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Federal Incentives – DOE Applied R&D Programs

Programs supporting energy efficiency and renewable energy technologies:

- Biomass:
- Buildings:
- Federal Energy Management:
- Geothermal:
- Fuel Cells:
- Advanced Manufacturing:
- Solar:
- Vehicles
- Weatherization:
- Wind:
- Water Power:

eere.energy.gov/biomass/
eere.energy.gov/buildings/
eere.energy.gov/femp/
eere.energy.gov/geothermal/
eere.energy.gov/hydrogenandfuelcells/
eere.energy.gov/manufacturing/
eere.energy.gov/solar/
eere.energy.gov/vehiclesandfuels/
eere.energy.gov/wip/
eere.energy.gov/wind/
eere.energy.gov/water/





Federal Incentives - Opportunities

- BENEFIT
 - 2014: \$14M in grants for building energy efficiency projects
- ARPA-E Open FOA
 - 2015 FOA offering \$125M in grants. Concept papers due 2/27/2015
- FEMP AFFECT
 - 2014: \$5M in grants awarded. 2015 FOA pending
- Loan Guarantee Program
 - Declining budget. Challenging for smaller projects (<\$50M)
- Tax Credits
 - 30% ITC for CHP. Sunset dates looming for CHP and renewables





State and Local Incentives

- State Energy Programs
 - NYSERDA: Ongoing program to fund CHP and other energy efficiency projects
 - MA DOER: \$40M in grants awarded for energy resiliency projects in 2014
 - CA PUC: Ongoing Self Generation Incentive Program (SGIP) grants
- Utility Incentives
 - On the rise alternative portfolio standards, customer demand
 - Stability and Cost Avoidance
 - Prescriptive and Custom project incentives







Application Tips





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Application Tips

Create visibility with agency career program management staff prior to issuance of a grant opportunity.

The key elements of successful applications:

- » Technology
- » Team
- » Timing

- Develop 2-3 page White Papers
- · Hold meetings with career staff
- Develop appropriate partnerships
 - End Users
 - Technology Partners
 - Legislative Support
 - Industry Support
- Pursue precursor technical and financial assistance at a smaller-scale
 - Analytic Grants
 - Technical Support
 - Competitive Solicitations
 - Unsolicited Proposals





Resources

- Database of State Incentives for Renewables and Efficiency
 - DSIRE.org
- EERE Energy Efficiency Exchange
 - eere-exchange.energy.gov
- EPA-CHP Policies and Incentives Database
 - epa.gov/chp/policies/database
- DOE Technical Assistance Partnerships
 - energy.gov/eere/amo/chp-technical-assistance-partnerships
- State Energy Office websites
- Utility websites









The Tax-Exempt Customer

State and Political Subdivisions, i.e. "Muni"

- States
 - Higher Education
 - Community Colleges
 - In some States these are under local/district control
- Local Government
 - Cities
 - Counties
 - K thru 12
 - Hospitals, i.e. District and Local Government, i.e. Denver General
 - Airports
 - Energy Improvement Districts



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Municipal Finance Options

Bonds

- Low Cost
- Political Process and Risk, i.e. "Debt Aversion"
- Scale

							Ratings		Last Sale		
4-	Issuer Name	Symbol	Callable	Sub-Product Type	Coupon	Maturity -	Moody	S&P	Fitch	Price	Yield
	UNIVERSITY COLO ENTERPRISE SYS REV		Yes		5.000	06/01/2046	Aa2		AA+	119.401	2.650
	UNIVERSITY COLO ENTERPRISE SYS REV		Yes		5.000	06/01/2043	Aa2		AA+	111.550	3.500
	UNIVERSITY COLO ENTERPRISE SYS REV		Yes		5.177	06/01/2043	As2		AA+	108.059	4.060
	UNIVERSITY COLO HOSP AUTH REV		Yes		5.000	11/15/2042	A1	AA-	AA-	113.786	3.010
	UNIVERSITY COLO HOSP AUTH REV		Yes		4.000	11/15/2042	A1	AA-	AA-	104.783	3.300
	UNIVERSITY COLO ENTERPRISE SYS REV		Yes		3.500	06/01/2042	Aa2		AA+	102.825	3.069
	UNIVERSITY COLO HOSP AUTH REV		Yes			11/15/2041	Aa1		AA-	100.000	
	UNIVERSITY COLO ENTERPRISE SYS REV		Yes		5.000	06/01/2041	Aa2		AA+	107.055	4.100
	UNIVERSITY COLO ENTERPRISE SYS REV		Yes		5.000	06/01/2041	Aa2		AA+	113.486	3.033



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Municipal Finance Options

Municipal Lease or Loan

- No Voter Approval
- Cancellable Annually for Non-Appropriation

Glossary of Municipal Securities Terms

NON-APPROPRIATION CLAUSE

A provision of a <u>bond contract</u> that allows the lessee or borrower to terminate certain obligations under a <u>long-term</u> certificate of participation or other revenue obligation financing if the appropriating body does not appropriate funds for the lease payments. See: CERTIFICATE OF PARTICIPATION; LEASE-PURCHASE AGREEMENT; LEASE RENTAL BOND; ANNUAL APPROPRIATION PLEDGE; SUBJECT TO APPROPRIATION.

- Pre-Payable
- Fully Amortizing
- Easily "Sculpted" Payments





Conduit Financing – the 501(c)(3) "Non-Profit" Customer

Higher Education and Healthcare

- Higher Education Examples
 - The University of Denver
 - Stanford University

COLORADO SEMINARY

Read Reviews

Income: \$543,405,959 Denver, CO 80210

STANFORD UNIVERSITY BOARD OF TRUSTEES OF THE LELAND STANFORD JIII Income: \$4,936,509,854 Also known as: Stanford University Stanford, CA 94305

- Healthcare Examples
 - The "Sisters and Saints"

SISTERS OF CHARITY OF LEAVENWORTH HEALTH SYSTEM INC Income: \$339,229,737 Denver, CO 80211 National Jewish Health

Read Reviews

Income: \$213,888,461 Also known as: National Jewish Health Denver, CO 80206

SAINT JOSEPH HOSPITAL

Read Reviews

Income: \$468,278,775 Denver, CO 80218



Conduit Financing – the 501(c)(3) "Non-Profit" Customer

Arts and Cultural

- Zoos
- Museums
- Campus
- Theatres and Music

Zoological Society of San Diego Income: \$237,805,368 Also known as: San Diego Zoo Global

DENVER ART MUSEUM INC

Income: \$34,338,656 Denver, CO 80204

TEXAS MEDICAL CENTER

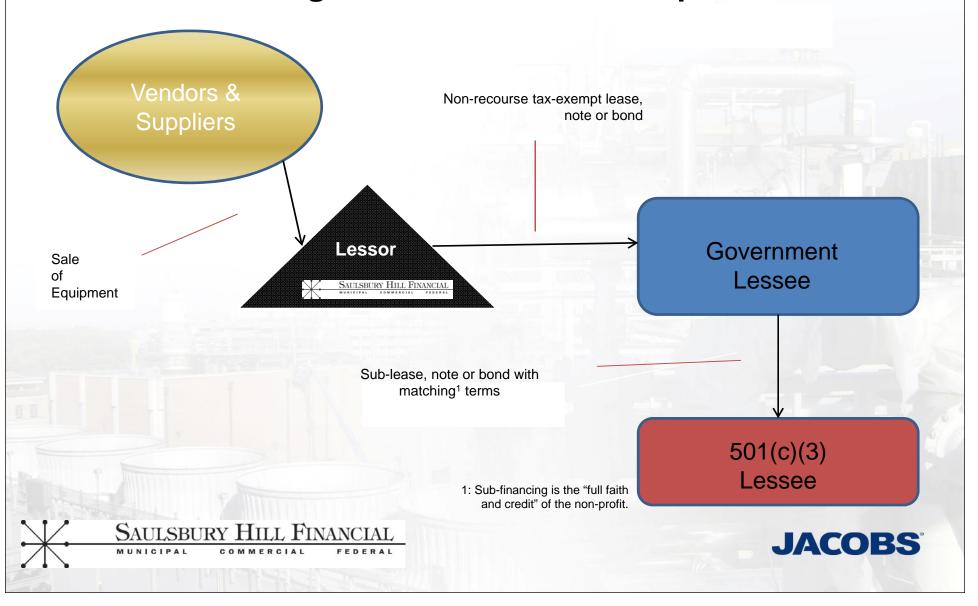
Income: \$93,720,701 Houston, TX 77021-2040

METROPOLITAN OPERA ASSOCIATION INC Income: \$311,963,964 New York, NY 10023



Conduit Financing – the 501(c)(3) "Non-Profit" Customer

Conduit Financing for Non-Profits: A Simplified Flow Chart





Questions?

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