lighting design lab

The Inflation Reduction Act: One Year Later

Presented by Jacob Goldman, Energy Tax Savers

October 19, 2023

Seattle City Light



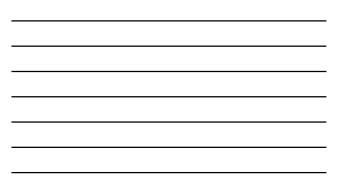
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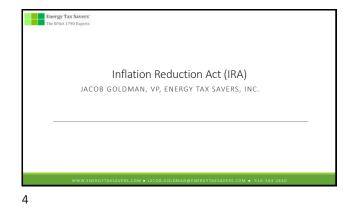
Webinar Procedures

- All attendees are on mute
- Submit questions in Questions tab at any time
- The webinar is being recorded
- Please take the after-class survey!

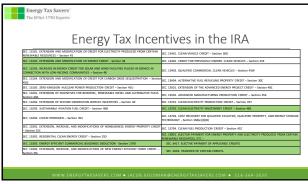


Course	Day	Time
Electrification and Energy Management Systems	Thu Nov 09	10:00am-noon
ighting Retrofits and Audits	November TK!	
More to come in Nc Stay up-to-date at LightingDesignLab.c		



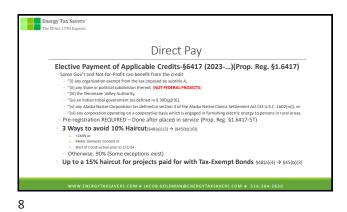








Alternative Energy Credits-§48, ITC (2022)									
Technology	Base Credit	5x Bonus Credit (2022)	Domestic Content (2023)	Energy Community (2023)	Low Income (2023)	Range			
Solar Technologies (2022)	6%	30%	2%/10%	2%/10%	10%/20%	6%-70%			
Small Wind (2022)	6%	30%	2%/10%	2%/10%	10%/20%	6%-70%			
Ground Source Heat Pump (2022)	6%	30%	2%/10%	2%/10%	0%	6%-50%			
Microturbine	2%	10%	2%/10%	2%/10%	0%	2%-30%			
CHP (2022)	6%	30%	2%/10%	2%/10%	0%	6%-50%			
Microgrid Controller (2023)	6%	30%	2%/10%	2%/10%	0%	6%-50%			
Standalone Energy Storage Systems (2023)	6%	30%	2%/10%	2%/10%	0%	6%-50%			
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Geothermal (2022)	6%	30%	2%/10%	2%/10%	0%	6%-50%			
Biogas (2022)	6%	30%	2%/10%	2%/10%	0%	6%-50%			
Waste Energy Recovery (2022)	6%	30%	2%/10%	2%/10%	0%	6%-50%			
Interconnection Property (2023)	6%	30%	2%/10%	2%/10%	0%	6%-50%			
Electrochromic Glass (2023)	6%	30%	2%/10%	2%/10%	0%	6%-50%			







Energy Tax Savers

Alternative Energy Credits-Bonus

- 5 Times Bonus (6% x 5 = 30%) (2022-...)
 Project with a Net Output of less than 1 MW (284 Tons?) or
 Meets the Prevailing Wage and Apprenticeship (P+A) Requirements (IRS Notice 2022-61) or
 - Projects that begin Construction prior to January 29, 2023

Domestic Content Bonus (Qualified Facility) (2023-...) (IRS Notice 2023-38)

- 100% of the cost of Structural steel and iron and
- 40% of manufactured product (49 CFR § 661.5) is produced in USA Calculated on the entire ITC Qualifying project

- Calculated on Manufacturer's Cost(Will this be difficult?)
 Calculated on Manufacturer's Cost(Will this be difficult?)
 Cost(Soft(2))
 Foroject meets 5x Bonus requirements, 10% Bonus (30% + 10% = 40%)

10

Energy Tax Savers' Alternative Energy Credits-Bonus Energy Community Bonus(IRS Notice 2023-29) Energy Community – Census Tract or adjoining tract with a Coal Mine closed since 2000 or - Census Tract or adjoining tract with a Coal Mine closes since 2000 or - Census Tract or adjoining tract with Coal Fired plant Losed since 2010 or - Brownfield Site (2015): Real/Intel Coal Fired plant Losed since 2010 or - Brownfield Site (2015): Real/Intel Coal Fired plant Losed since 2010 or - Area with 0.1% direct employment related to Coal, Oli or NG and higher then avg unemployment[<u>Based on Start of</u> <u>Construction</u>] --Rea with 0.2% tax-revenue related to Coal, Oli or NG and higher then avg unemployment <u>Based on Start of</u> <u>Construction</u>] (5% + 2% = 8%) 2 r usuau (u = 1 = 4 - 00) H project mets 5 s Bonus requirements, 10% Bonus (30% + 10% = 40% + 10% Domestic = 50%) Official IRS Ster. Will be completed in Mar, partially usable now. Updated every May: http://prcis.met.do.gov/portal/gav/perpeirence/huller/generiter/2/huller262/d4721a477a8701bd0e08495e1d

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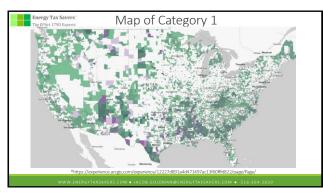


Alternative Ene	ergy Credits-Bor	านร	
Solar and Wind Solar and Wind Battery Backup finduded with Requires Pre-Application 1.8 gigawatts of direct current allocated per year 60 Day Application Window Must be <u>UNDER CONTRACT</u> but NOT <u>PLACED IN SERV</u>			
-	Annual Allotment	Credit	Application
Category	Annual Allochenc		Period
	490 MW BtM 210MW FtM	10%	Period After 3 rd Qtr
1: Located in a Low-Income Community			
Category 1: Located in a Low-Income Community 2: Located on Indian Land 3: Qualified Low-Income Residential Building Project	490 MW BtM 210MW FtM	10%	After 3 rd Qtr

 Description

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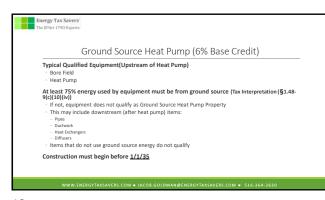
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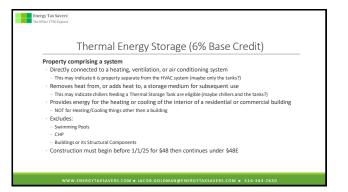


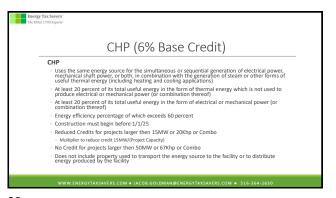


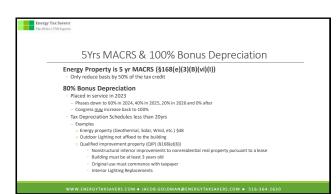
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Clean Electricity ITC <u>§48E</u> (<u>2025</u>)							
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Ground Source Heat Pump (2022) Covered by §48 until 1/1/2035: 0% 6%-50%							
Microturbine	2%	10%	2%/10%	2%/10%	0%	2%-30%	
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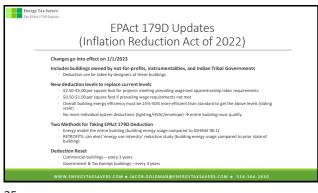


Time Va	Time Value of Money (\$39,000, 35% tax rate)										
	Year										
	1	2	3	4	5	6		36	37	38	39
39yr Depreciation (Deduction)	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000		\$1,000	\$1,000	\$1,000	\$1,000
39yr After Tax (35%)	\$350	\$350	\$350	\$350	\$350	\$350		\$350	\$350	\$350	\$350
39yr NPV (4% discount rate)	\$6,854										
39yr NPV (8% discount rate)	\$4,158										
Svr Depreciation (Deduction)	\$7,800	\$12,480	\$7.488	\$4.493	\$4.423	\$7.745					
Syr After Tax (35%)	\$2,730	\$4,368	\$2.621	\$1.573	\$1.573	\$786					
Syr NPV (4% discount rate)	\$12,252										
Immediate Deduction	\$39,000										
Immediate After Tax (35%)	\$13,650										

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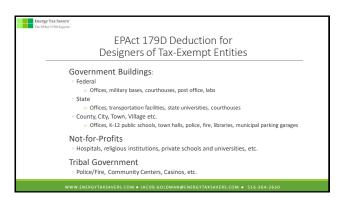
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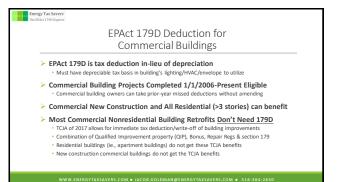


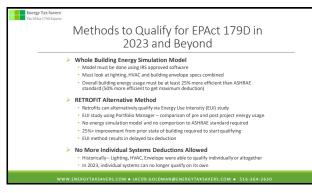


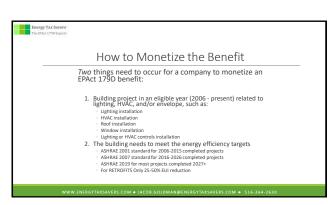


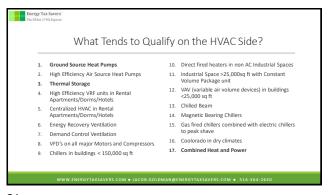




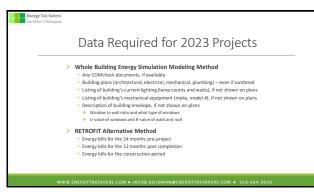




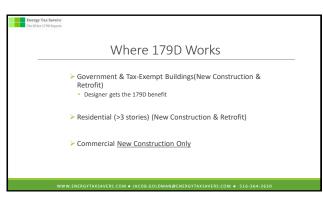












Prevailing Wage Requirement For Larger 179D Deduction Level (\$2.50-5.00)
 Prevailing wages can be found at <u>www.sam.gov</u>
 Wage Determination for Unlisted Categories, IRAprevailingwage@dol.gov the type of facility, facility viacation, proposed labor districtions, proposed preading wage nates, job descriptions and duries, and any rational for the proposed disafilications
- Records required [Taxpayer's employees, contractors and subcontractors] - identifying the applicable wage determination, - the labors and mechanics who performed construction work on the facility, - the classifications of work they performed, - AppendicyJourneyworker - Hours worked in each classification, - And the wage rates gaid of the work and fringe benefits.









