

Energy Efficiency and Renewable Project Opportunities Given the New Federal Inflation Reduction Act 2022

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WHAT CHANGED WITH THE INFLATION REDUCTION ACT

- The recently passed Inflation Reduction Act has changed the way municipalities and non-profit 501(c)(3) entities can structure and finance renewable energy projects.
- Historically, development of renewable energy projects
 has been driven by federal and state incentives, including
 federal tax credits. As a result, most projects have been
 structured and financed through private ownership, at
 least for a period of time, in order to fully capture the
 associated federal tax benefits.
- Newly created provisions of the Act now permit municipalities and non-profit 501(c)(3) organizations to receive incentives through direct payments from the US Treasury in lieu of investment or production tax credits.

Law enacted August 12, 2022

- Prevailing Wage & Apprenticeship guidelines published November 30, 2022
- Low-to-Moderate Income bonus initial guidance published February 13, 2023
- Further IRS guidance on implementation to come

Issuers and 501(c)(3) Borrowers can now:

- Own renewable energy facilities or projects AND
- Directly benefit from tax credits

Another Federal grant funding program

- Comparable to "direct pay" bonds (e.g. BABs, QSCBs)
- Credit against tax includes an overpayment of tax (e.g withholding)
- Amount varies based on a number of factors

AMOUNT OF TAX CREDITS AVAILABLE

qualifying projects, the ITC has a base rate of 6% of the applicable costs with an increased rate of 30% for projects meeting certain prevailing wage and apprenticeship requirements The investment tax credit (ITC) is a one-time payment after the facility is placed into service. In general, for

in the following chart. In addition, the ITC may be further increased for qualifying projects if certain requirements are met as shown

Bonus Amounts: increases to base credit amount

DOMESTIC CONTENT +10%

qualifying projects incorporating sufficient domestic materials

ENERGY COMMUNITY +10%

qualifying projects located in an "energy community"

Source: The Inflation Reduction Act of 2022, U.S. Treasury, Internal Revenue Service

LOW-INCOME COMMUNITIES +10%

qualifying wind and solar projects located in certain low-income communities

OR R

LOW-INCOME COMMUNITIES +20%

qualified low-income economic benefit projects

APPLICABLE DEFINITIONS

Prevailing Wage & Apprenticeship Requirements

- Applies to construction, alteration and repair of project
- Prevailing Wage union wages in locality of project determined by Secretary of Labor
- Apprenticeship Applies to taxpayer, contractor or subcontractor employing 4 or more individuals – must employ one or more qualified apprentices to do work

Energy Community

- Brownfield site as defined by CERCLA
- Closed fossil fuel employer with certain unemployment requirement
- Closed coal mine or coal-fired electric generating unit

Solar & Wind Projects in Low-Income Communities

- Need allocation of "Environmental Justice Solar & Wind Capacity"
- Max output of 5 MW
- Located in low-income community or on Indian land (10% increase); or

Part of qualified low-income residential building or economic benefit project (20% increase)

Domestic Content

 Steel, iron or manufactured product which is a component of project is produced in US

ELIGIBLE PROJECTS

In addition, the costs of interconnection property for qualifying projects may also be included as long as the maximum net output does not exceed 5 MW. The Act provides investment tax credits for the types of renewable energy projects listed in the following chart.

FINANCING WITH TAX-EXEMPT DEBT

be eligible for the direct payment in lieu of tax credits credits, local governments and 501(c)(3) organizations can now finance these projects with tax-exempt debt and still Since private ownership of renewable energy projects is no longer necessary to capture the full value of the federal tax

with up to a 15% reduction in the direct pay credit amount. debt, the ability to finance these projects with tax-exempt debt can significantly reduce the financing costs of the project even If a project is financed with tax-exempt debt, the direct pay amount will be reduced by 15%, or if less, the percentage of the facility financed with tax-exempt proceeds. Compared to a privately-owned renewable energy project financed with taxable

Is there a way to avoid the 15% reduction in the direct pay amount? Yes – Cinderella Bonds!

However, following the 5-year tax credit period the project is no longer subject to tax credit restrictions, including the 15% The compliance period for Investment Tax Credits is 5 years. During this time period tax credits are subject to "recapture".

a tax-exempt rate for the remainder of the term of the bonds. Cinderella Bonds - bonds that bear a taxable rate of interest for a period of time (e.g. the first five years) and then convert to

POTENTIAL FINANCING STRUCTURES

Financing Structures

and the options available to the municipality or 501(c)(3) entity under state law: The renewable energy project may be financed utilizing a variety of financing structures depending upon the type of project

- Certificates of Participation
- Energy Conservation Lease Purchase
- Revenue Bond
- General Obligation Bonds
- Certificates of Obligation

Tax-Exempt Debt - Redemption Considerations

arbitrage rebate consequences that should be discussed with your financing team. subsidies will be received. A pledge of the direct pay tax credit to pay or optionally redeem tax-exempt debt may have case the debt will need to have a final maturity or an optional redemption date consistent with the expected date in which the Generally, direct pay tax credits can be deposited in the issuer's general fund and used for any legally permissible purpose The tax credits can also be used to redeem a portion of the tax-exempt debt that has been issued for the project, in which

PROCESS FOR APPLYING FOR DIRECT PAYMENT SUBSIDY

IRS Form to Claim Credit

Not yet publicly released – can only speculate

Similar Forms:

Tax-Advantaged Bonds Interest Subsidy – Form 8038-CP

What to Expect

- Guidance is needed from Treasury to determine timing requirements for making election and filing return
- Certify to:
- qualifying nature of renewable energy project
- eligible basis of project costs
- satisfaction of applicable "bonus credit" requirements and amounts
- applicable tax-exempt financing and corresponding tax credit reduction
- Calculate and certify to applicable direct pay credit amount
- Increase net claimed direct pay credit amount for sequestration
- Provide certain supporting documentation
- Example Environmental Justice Allocation letter from IRS for Qualifying Solar and Wind Projects
- Sign form under penalties of perjury

WHAT THIS MEANS FOR MUNICIPALITIES

Investment Tax Credit Calculation Example

- Solar project constructed by a municipality:
- Qualifying project costs: \$2 million
- Eligible for 30% direct pay tax credit
- \$2 million, or 100% of project costs, financed with tax-exempt debt
- Calculation of Amount of Direct Pay Credit:
- \$2,000,000 * 30% = \$600,000
- Reduction of Direct Pay Credit due to Tax-Exempt Financing:
- \$600,000 * 15% = \$90,000
- Net Direct Pay Amount with Tax-Exempt Financing:
- \$600,000 \$90,000 = \$510,000

WHAT THIS MEANS FOR MUNICIPALITIES

1. Municipal Ownership and Control of Renewal Energy Projects

Private ownership of renewable energy projects no longer required to take advantage of the tax credits

2. Subsidized Project Costs

A portion of the cost of the project can be subsidized through the receipt of the ITC direct payment subsidies

3. Tax-Exempt Financing

- Financing of the project can be accomplished through the issuance of tax-exempt bonds
- Potentially lower cost financing than Power Purchase Agreement option

4. Gross Up Provision to Offset Impact of Sequestration

Claimed direct pay credit amount increased by 6.0445% to offset expected impact of mandatory sequestration

PROJECT EXAMPLE:

Municipal Solar Projects

Benefits to Municipality of solar project behind the meter

- No congestion and/or transmission issues
- Provides an opportunity to stabilize 10%-20% of power supply needs
- Fixed price for a portion of power portfolio in a volatile energy price environment
- Ownership may provide a lower operating cost vs PPA model which has a higher cost of capital

Renewable Attributes

- Progressive community
- Renewable energy credits

PROJECT EXAMPLES

Municipality needs to install new substation

The Act allows the necessary cost of adding a substation for a solar project as a qualifying expense if the project does not exceed 5MW

Distribution extension

The cost of upgraded distribution and new lines can be added as a qualifying expense to the project

Energy storage

The cost of battery installation can be cut by up to 50% as a qualifying expense

Case Study - City of Fredonia



Project

Financing Structure

Tax Credits

Construction of a 2.0 MW capacity photovoltaic facility expected to produce 4,800 MWh the first year, which is approximately 16% of the City's energy requirements

\$4,825,000 Tax-exempt Energy Conservation Lease Certificates of Participation

20-year term; Fixed interest rate

Callable at any time with the proceeds of the direct payment subsidy

30% anticipated tax credit (satisfy prevailing wage & apprenticeship requirements

service prior to receipt of Environmental Justice Allocation) + 20% potential low-income qualified benefit program (if project not placed in

= Potential ITC direct payment subsidy of 50% of eligible project costs

15% expected based upon 100% tax-exempt project financing

Tax Credit Reduction

Case Study - City of Fredonia



Savings to the City

the daily energy market a firm source of energy and corresponding reduction in the City's exposure to anticipated to reduce the City's overall energy costs by providing the City with Through an energy audit conducted by a third-party engineer, the solar project is

savings of approximately \$3.4MM on a P50 basis, and over \$2.6MM n a P99 project will offset the costs of financing the project over the life of the project with The energy consultant also certified that the energy savings associated with the

Comparison with PPA model:

over the life of the project compared to an alternative PPA option. With City ownership and tax-exempt financing, the City saved almost \$2MM

Presenter

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Nebraska Nathan's primary focus will be on UMB Bank's continued growth in the state of lowa and Nate Summers joined UMB Bank, n.a. Capital Markets Division in 2022 as senior vice president.

was involved in a \$53 million transition with Des Moines Independent Community School outstanding debt by providing financial modeling, monitoring and analysis. During this time, Nate financing solutions to municipal debt issuers. As well as determining the feasibility of refinancing clients as a Public Finance Banker at D.A. Davidson & Co. where he developed custom Nate has over ten years of public finance experience. Prior to joining UMB Bank, Nate served District

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