

Renewable Energy Guide

EXPLORING FINANCIAL OPPORTUNITIES

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It's an exciting time with extraordinary potential for investors in renewable energy projects. Public support has never been higher and the majority of the largest companies in the United States continue to set increasingly ambitious clean energy targets. Federal, state and local governments are also continuing to diversify their energy supplies to reduce carbon emissions by encouraging investment in renewable energy projects—especially through solar and wind.

While demand for renewable energy remains high, there's increasing uncertainty in the market. Decreasing cost structures and more efficient technologies have created new challenges—such as reduced motivation for some governmental agencies to subsidize development—along with more viable renewable energy platforms that offer substantial opportunity.

There are three particularly compelling reasons why investing in renewable energy projects and pursuing the associated tax incentives continues to be a smart financial strategy.

CORPORATE INVESTMENTS

Private and public-sector corporate investment in renewables has never been higher. Progressive-minded corporations see investing in renewable energy projects as a tax-savvy, socially responsible initiative. Annually, more than half of all Fortune 100 companies set clean energy targets and almost half of all Fortune 500 companies do too, according to the World Wildlife Fund.

GOVERNMENT INCENTIVES

Federal, state, and local governments encourage investment in renewables to help diversify their energy supply and reduce carbon emissions. Wind and solar are the most advanced renewable energy technologies in terms of existing or near-term power generation, industry maturity, and financial incentives, so they tend to receive the most investment.

PUBLIC OPINION

Demand for more renewable energy from the general public is also at an all-time high. The majority of Americans prioritize developing alternative energy over fossil fuels, according to studies by the Pew Research Center.

TAX REFORM

The wind and solar industries breathed a sigh of relief when President Trump signed tax reform legislation, commonly referred to as the Tax Cuts and Jobs Act (TCJA), on December 22, 2017. The TCJA reflects numerous compromises by Congress that differ from initial plans proposed by the House of Representatives, encouraging capital investment—including domestic energy development and production—in the United States.

What's Changed

The TCJA doesn't affect provisions in the Protecting Americans from Tax Hikes Act (PATH Act). While the wind and solar industries welcomed this news, many forms of renewable energy were excluded from targeted incentives.

The president signed the Bipartisan Budget Act of 2018, referred to as the Budget Act, only weeks after signing the TCJA into law. The Budget Act was pushed forward to avoid government shutdown. While the PATH Act and the TCJA neglected many forms of renewable energy, the Budget Act extends some expired energy-related tax credits for many non-wind and solar renewable resources.

This guide explores how tax reform and the Budget Act compare to previous provisions as well as tax reform provisions that apply to renewable energy. On page 16, we've included a section that discusses some additional TCJA provisions applicable to renewable energy.

Background

Early in 2017, the Trump administration and Republican-controlled Congress signaled they might pursue a less friendly path for renewable energy development. Previous tax reform proposals included provisions to either terminate or phase out some wind and solar incentives that President Obama signed into law in 2015 with the PATH Act.

In previous tax reform proposals, existing wind and solar-specific incentives were eliminated in favor of a broad—but less lucrative—renewable energy-based incentive. Factions in Congress backed these proposals, claiming that wind and

solar industries had matured and no longer needed the same level of federal subsidization. They stated that the government should instead encourage all forms of renewable energy development.

2020 UPDATE

In late 2019, a tax bill referred to as the GREEN Act was introduced to extend, and even expand, many of the renewable energy tax credits and incentives soon expiring or set to expire. While there appeared to be bipartisan support for extending the incentives, the eventual spending and tax bill signed by President Trump in December 2019, the Extenders Bill, largely ignored the provisions introduced in the GREEN Act.

The most significant exception was for the wind energy production tax credit (PTC). Whereas wind projects were subject to a phasedown that included a reduced PTC rate of 40% through the end of 2019 under the Budget Act, wind projects that begin construction in 2020 are eligible for a 60% PTC under the Extenders Bill.

CARES ACT

In early 2020, as a result of the COVID-19 pandemic, President Trump signed the Coronavirus Aid, Relief, and Economic Security Act (CARES Act).

Although a detailed analysis of the CARES Act is beyond the scope of this guide, some provisions of the \$2.2-trillion stimulus bill temporarily modified provisions in the TCJA with the intention of easing the economic impact of the pandemic. Learn more about CARES Act provisions on page 18.

2021 UPDATE

A second round of COVID-19-related stimulus was declared on December 27, 2020, when President Trump signed the Taxpayer Certainty and Disaster Tax Relief Act of 2020 (Taxpayer Certainty Act) and the COVID-19-Related Tax Relief Act of 2020 (CTRA).

The Taxpayer Certainty Act extends or makes permanent a number of energy-related tax provisions that would otherwise expire due to earlier tax law enactments, including the PATH Act, TCJA, and the Budget Act. See pages 14–16 for further details.

58%

STATES

RPS policies exist in 29 states and DC.¹

Note: Mandatory standards or nonbinding RPS goals also exist in the US territories of American Samoa, Guam, Puerto Rico, and the US Virgin Islands.

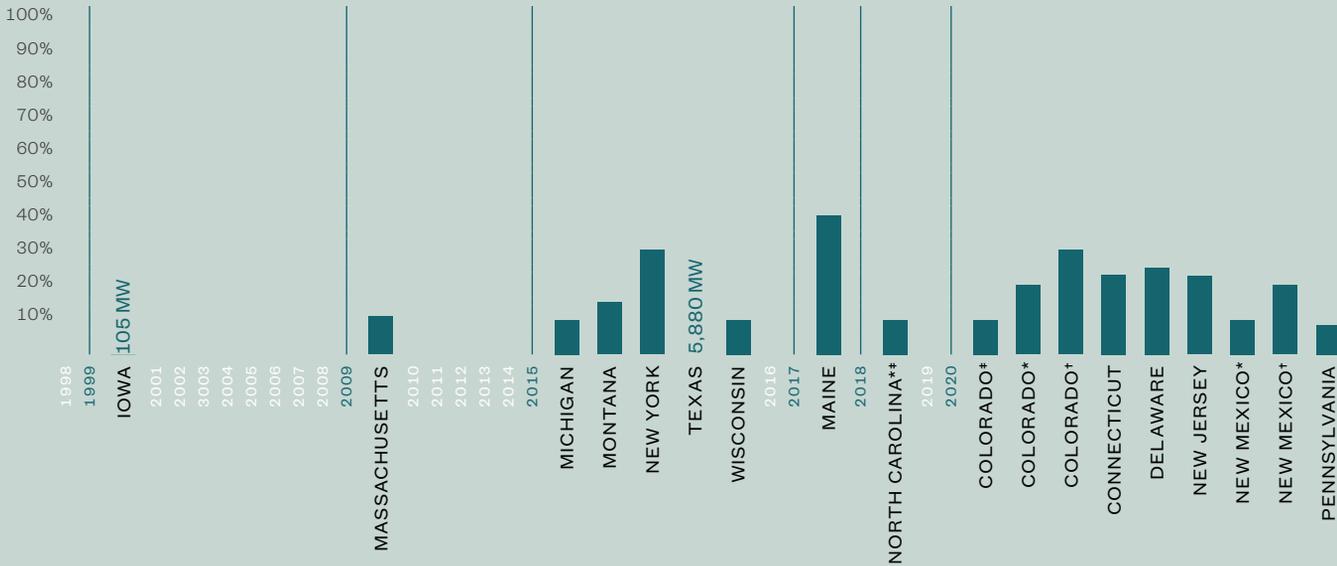
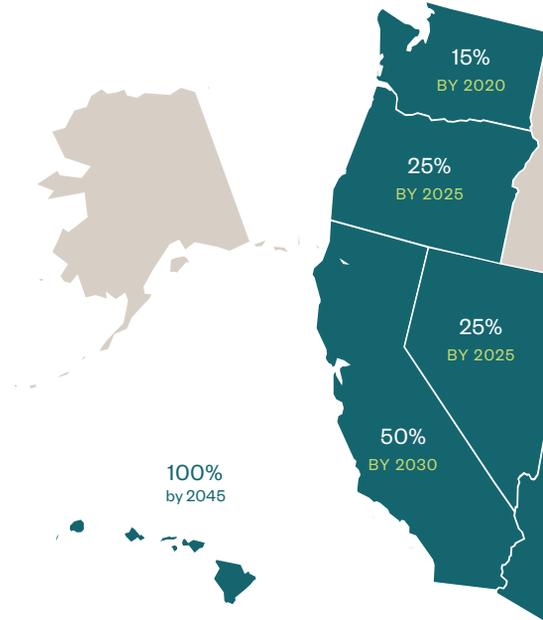
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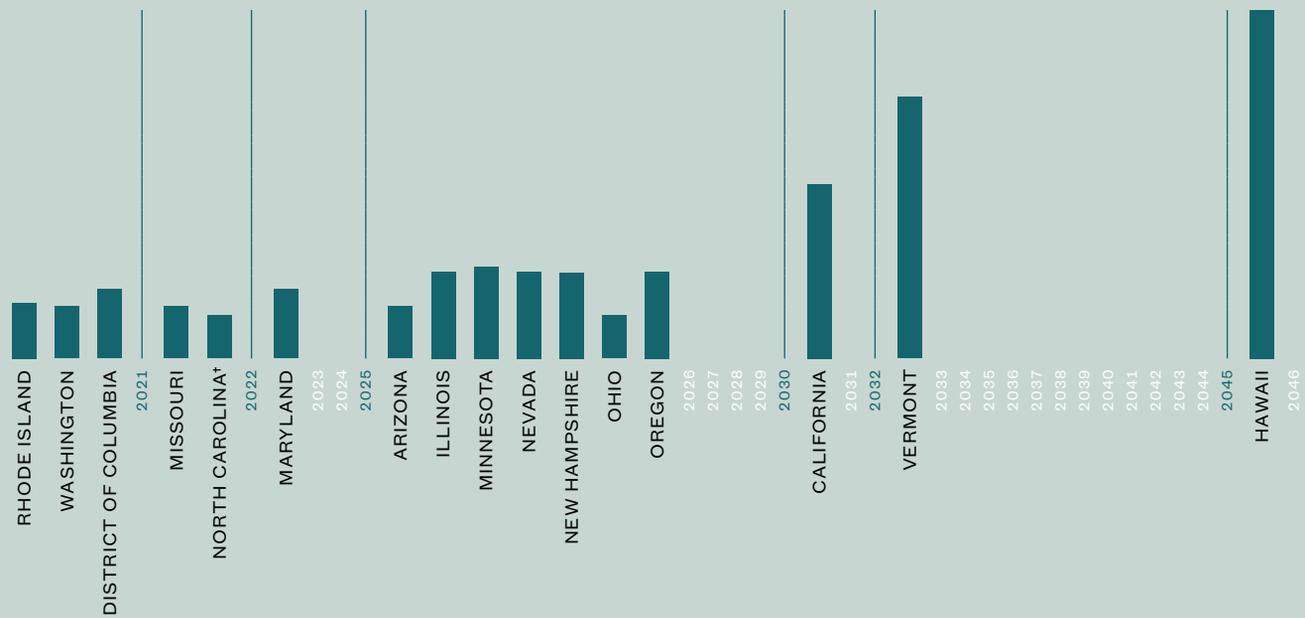
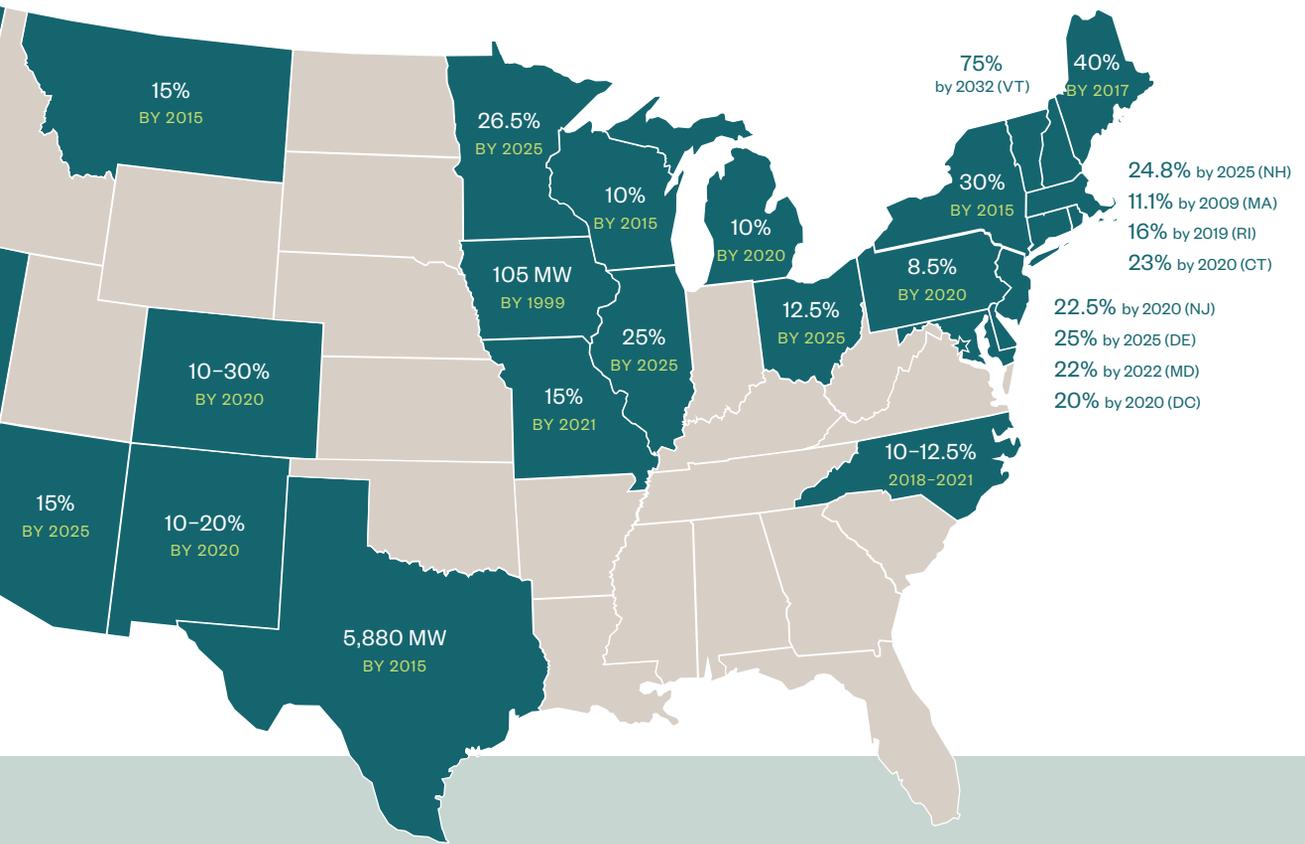
SOURCE: BERKELEY LAB

54%

ELECTRICITY SALES

RPS policies apply to more than half of total US retail electricity sales.







Investors

Renewable energy has historically been sustained by investors that demand a return-based yield, which is often largely produced by tax incentives.

For projects with revenue-generating prospects that are contractually defined, identifying and claiming available tax incentives and containing costs are two of the most effective ways to increase return on investment (ROI). This is achieved by employing sophisticated accounting and tax strategies that allow investors to monetize all of the tax and cash attributes of a project and by structuring projects in ways that benefit the unique interests of each partner.

There are typically five types of stakeholders when it comes to renewable energy projects.

Developers & Sponsors

These are the originators of a project—often through greenfield investment. They gather the assets, land leases, supply agreements, leverage, engineering, procurement and construction contracts (EPCC), and the power purchase agreement (PPA).

MOTIVATIONS

These stakeholders either design, build, and sell (DBS) a project for an immediate cash return or design, build, and own (DBO) it—or at least a portion of it. They'll often DBO the cash equity portion of a project, keeping it in their generating portfolio and then enter into a partnership by selling off the tax equity piece to an entity that can absorb the incentives they can't.

Tax & Cash Equity Investors

Project sponsors are often cash equity investors; however, cash equity investors can also be passive investors that are interested in the project's cash flow. Tax equity investors are generally passive investors with the ability to absorb tax incentives. Increasingly, tax equity investors are large corporations with energy intensive infrastructure that have the ability to absorb tax incentives and are looking for socially responsible and sustainable ways to meet their energy demands.

MOTIVATIONS

Tax equity investors look for a reasonably secure ROI over a defined period, which is largely driven from tax incentives. Cash equity investors look for a secure ROI on predictable cash returns, since they typically don't have an appetite for tax incentives.

Suppliers & Contractors

These partners design and manufacture a project's underlying renewable energy equipment or construct renewable facilities.

MOTIVATIONS

Suppliers are interested in selling the underlying assets to the renewable energy project for a profit. Contractors and engineers design and construct the project's infrastructure for a fee.

Offtakers

Usually a regulated utility that purchases the generated electricity from a project under a PPA, oftakers may also be residential homeowners, commercial businesses, corporations, or government agencies.

Corporations—typically energy-intensive businesses, such as ones with data centers—enter a virtual PPA to acquire energy at a set price for each megawatt-hour that a renewable facility puts on the grid, even though the energy may not go directly to the corporation.

MOTIVATIONS

Offtakers are looking for cost-effective and reliable sources of energy to meet the consumer's—their own or the public's—demands. Governments often require utilities to meet renewable energy portfolio standards. Many corporate oftakers are also looking to meet the energy demands of their business in a socially responsible way.

Regulators & Other Government Entities

These entities are either directly involved in approving projects and managing incentives programs or may have related interests. They represent the public interest in a project.

MOTIVATIONS

The public can either rally for or against a new project's perceived economic, environmental, and social impacts—and possesses significant influence in the regulatory process. Governments and regulators are motivated to have sustainable, emission-free energy and to be less reliant on fossil fuels.



Ambitious renewable energy targets can produce cash and tax benefits to investors through:

- Investment tax credits
- Production tax credits
- Accelerated depreciation
- Operating cash flows
- Other incentives, such as property tax rebates and abatements or sales tax exemptions

Project Structuring

Understanding the financial motivations of each project partner helps to establish the right financial modeling and monetization structure to benefit each party as much as possible. The more efficiently attributes can be used by investors, the more valuable a project is.

Taxpayers encounter substantial statutory hurdles when trying to claim these tax incentives, which can often result in the benefits being underused or unmonetized.

Most tax incentives are applied to reduce an entity's tax liability. In most cases, the tax incentives can only be absorbed by a taxpayer that has enough taxable income to absorb the credits and that's in a position to make large capital commitments.

Some investors may want only cash on cash returns, for example, while other taxpayers that have large tax liabilities may have an appetite for accelerated depreciation and tax credits. The ideal scenario is to structure a project so that the attributes—cash or tax incentives—can be steered to the investor that can use them most efficiently.

Three different types of partnership structures are commonly used to achieve this.

PARTNERSHIP STRUCTURES

Partnership Flip

Under a common variant of this structure, the tax equity investor may—for a period of time—share 99% of the accelerated depreciation and credits generated by the project and 5% of the cash, while the cash investor shares 1% of the tax attributes and 95% of the cash.

Once the tax equity investors achieve an agreed upon rate of return or investment balance or holds the asset for an agreed term, the investment flips. After the partnership flips, the tax equity investor may only share in the tax attributes at 5% and cash at 95%, and the cash equity investor may share in 95% of the tax attributes and 5% of cash.

Sale Leaseback

In this scenario, the sponsor records a tax gain from the sale of the asset to the tax equity investor. The tax equity investor becomes the lessor and claims accelerated depreciation and investment tax credits (ITCs) generated by the assets. The lessor also receives a lease payment from the sponsor investor, also known as the lessee.

The lessor may require a significant prepayment of the lease obligation, essentially requiring the lessee to return a portion of the proceeds received from the sale of the asset to the lessor. The lessee operates the assets, receiving cash and earnings from generating and selling electricity to the offtaker, and makes lease payments to the lessor.

Inverted Lease

Also known as a lease pass-through, under this structure the sponsor company is the lessor that assigns customer agreements and leases under the head lease to the lessee or master tenant. The lessor can either claim the credits generated by the assets or make a credit pass-through election, opting to pass the credit along to the master tenant.

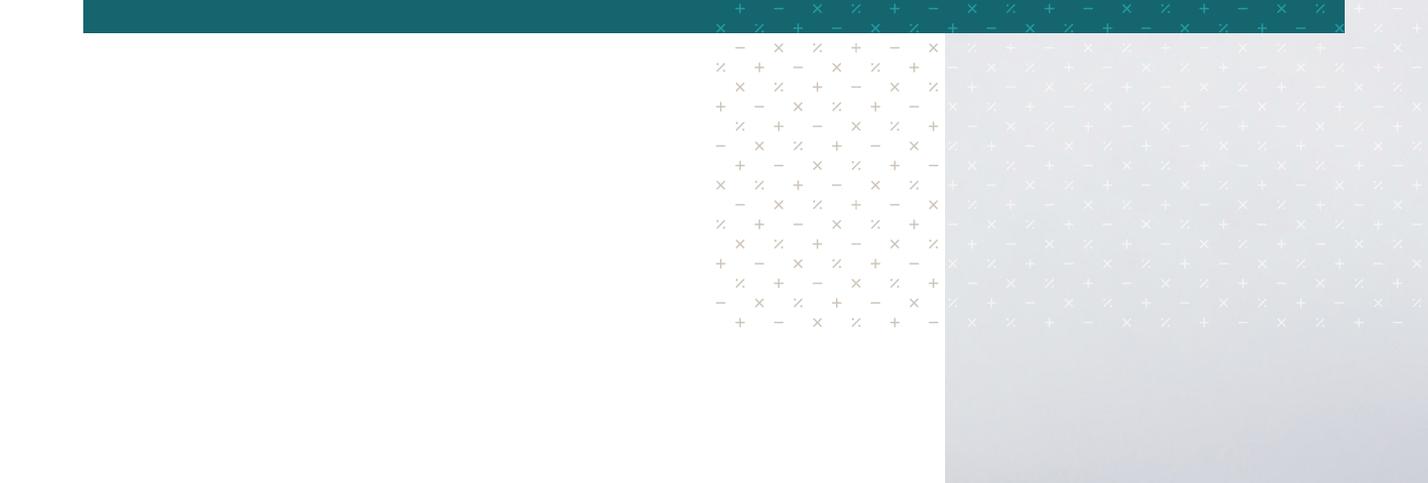
The master tenant operates the assets and generates cash by selling electricity to its third-party customers. The master tenant is usually a partnership owned by a tax equity investor that has appetite for the credits passed through from the lessor to the master tenant and then allocated to the tax equity investor.

STRUCTURING CONSIDERATIONS

Along with each potential partnership structure there are a number of issues that must be carefully addressed, such as complex partnership provisions for special allocations, important tax elections, and safe harbor provisions in some cases.

Each type of partnership structure requires the following:





Credits & Incentives

Knowing which states, local tax authorities, and utilities offer incentives and understanding the characteristics of the incentives—such as transferability and required certifications and the tax implications of the incentives—can help investors increase the rate of return on the projects they invest in.

Federal ITCs and PTCs aren't generally transferrable, meaning the credit must be used by the taxpayer to which the credit enures; however, some states allow it. If a project generates a credit in a state where the taxpayer can't absorb it—because the taxpayer doesn't pay sufficient tax in that state—the taxpayer may be able to monetize the credit by selling it to a taxpayer that does have tax appetite in that area. Transferable credits are often exchanged between taxpayers at discounts.

Some states also offer credits that are refundable. Refundable credits can be monetized by an investor even if the investor has no other tax footprint within a particular state.

SALES & USE TAX

Most states provide exemptions for at least some of the following activities and expenses.



MANUFACTURING

The definition of *manufacturing* differs from state to state; however, many states do consider the production of electricity as a manufacturing activity.



SOLAR EQUIPMENT AND SYSTEMS

Sales of equipment and devices used to heat, cool, provide lighting, or that are used in power generation are examples of items that may qualify for solar equipment and systems exemptions.



POLLUTION CONTROL

Whether a pollution control activity is the predominant activity or subsystems at a facility, exemptions could apply to equipment and systems that exceed state or federal standards.



R&D

Research and development activities that may qualify for an exemption include modifying equipment to improve efficiency and testing products or pollutants to develop better processes.



CONSTRUCTION

The sales and use taxability of construction projects may depend on the type of contract that's entered into between the contractor and the customer. Exemptions may be lost when a contract is structured as a fixed-price instead of a time-and materials contract.



LEASED PROPERTY OR EQUIPMENT

Although some states provide sales and use tax exemptions for intercompany and related party transactions, those exemptions may have strict rules that dictate specifics of those transactions. The type of item being leased and the lease term can also impact the taxability of a lease transaction.



PROPERTY TAX INCENTIVES

Property tax incentives for renewable energy installations come in many forms and provide exemptions, abatements, credits, or special assessments that mitigate or eliminate the increase in assessed value of a property.

Although there are many states with property tax policy as it relates to solar projects, there are fewer property tax incentives available for other renewable energy projects, such as wind and geothermal.

More than 30 states have enacted policies addressing how solar projects should be treated for property tax purposes, for example. Some states have multiple policies that apply to different system configurations or ownership structures. These state policies take the form of either an exemption from property tax for the value added by a solar project or a special assessment that formalizes an approach to valuing a solar project.

Assessment appeals relative to the real or personal property of renewable energy projects are also an avenue of addressing annual property tax assessments. As state policy regarding the assessment of these projects differ, so will local jurisdiction policy differ as to assessment appeals.

The continuation of any property tax incentives must be reevaluated when any changes in ownership or control occur, because those actions could significantly impact and increase a property tax assessment.

COST SEGREGATION

Cost segregation enhances the depreciation deductions of properties in the first few years of ownership by looking at the details of the component costs of a project, then categorizing those costs in a way that's most advantageous to an investor.

It takes specialists in engineering, construction, cost accounting, and federal tax depreciation to maximize the opportunity and entails a detailed review of cost records, invoices, and construction drawings to identify assets and allocation of costs to those assets.

A cost segregation study also involves a compliance component with varying recovery periods that's particularly significant for the following assets and expenses:

- Credit eligible and ineligible tangible energy property
- Intangible property, such as PPAs and interconnection agreements
- Transmission property
- Land improvements
- Network costs
- O&M buildings
- Leases



DEPRECIATION

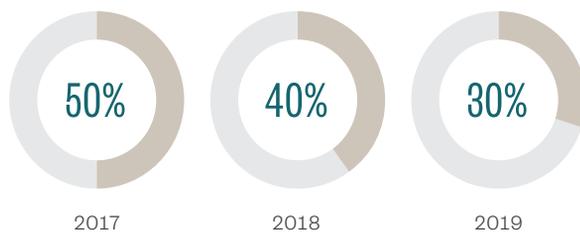
Claiming accelerated depreciation and bonus depreciation or both is a time value of money benefit that adds value to a project. A taxpayer that can absorb the accelerated deductions to offset tax liability will value a project higher than a taxpayer that can't absorb the losses at the same rate.

Often, the largest component cost of a renewable energy project can be recovered over five years using the double declining balance method under modified accelerated cost recovery (MACRS).

Bonus depreciation—where a taxpayer might be able to recover up to 100% of the asset basis in the first year the asset is placed in service—may be available for certain asset categories, including eligible five-year energy property.

BONUS DEPRECIATION RATES BY YEAR PROPERTY IS PLACED IN SERVICE

FORMER LAW (PATH ACT*)



TAX REFORM**



*original use only

**original use and used property

Phaseouts

SECTION 45

The Section 45 credit—often referred to as the renewable energy production tax credit or PTC—is based on a taxpayer’s production of electricity from qualified renewable energy property and sold to an unrelated party.

Before the Budget Act, eligible energy property generally included wind energy property. For certain other renewable energy resources otherwise qualifying under Section 45, the property was only eligible if the construction of the facility began before 2017. However, under the Budget Act, the *beginning of construction* deadline has been extended for one year—for years before 2018—for the following facilities used to produce electricity:

- Closed-loop biomass
- Open-loop biomass
- Geothermal
- Landfill gas
- Trash
- Hydropower
- Marine and hydrokinetic

The credit is generally 1.5 cents—indexed for inflation—per kilowatt-hour (kWh) produced by the taxpayer and sold to an unrelated person. The PTC is available for a 10-year period beginning on the date the qualifying facility is placed in service.*

Under a special election, taxpayers can elect to have PTC-eligible property treated as energy property subject to the 30% investment tax credit (ITC) under Section 48, but a taxpayer can’t claim both.**

For wind energy facilities beginning construction after 2016 and before 2020, the 30% ITC is phased

out similarly to the PTC phaseout schedule. If a taxpayer elects to treat the facility as energy property, for example, and construction begins in 2017, then the taxpayer may claim a 24% ITC—a 20% reduction of the 30% ITC rate. Under the Budget Act, for other-than-wind PTC-eligible property placed in service before 2018, the ITC rate isn’t subject to a phaseout.

2020 UPDATE

Under the Extenders Bill, the PTC for wind and other technologies has been extended through 2020. As also determined by the bill, wind projects that begin construction in 2020 will be eligible for a 60% credit. Projects for which construction began in 2019 are still subject to a 40% PTC rate.

2021 UPDATE

Under the Taxpayer Certainty Act, the deadline for beginning construction of onshore wind projects has been extended through 2021. Projects for which construction begins in either 2020 or 2021 will qualify for the PTC at 60%. For PTC-eligible projects that elect to claim ITC in lieu of the PTC, the ITC rate in 2020 and 2021 is 18%.***

For offshore wind projects, the Taxpayer Certainty Act provides additional benefits. See the offshore wind-specific provisions of this guide under Section 48, 2021 Update, to learn more.

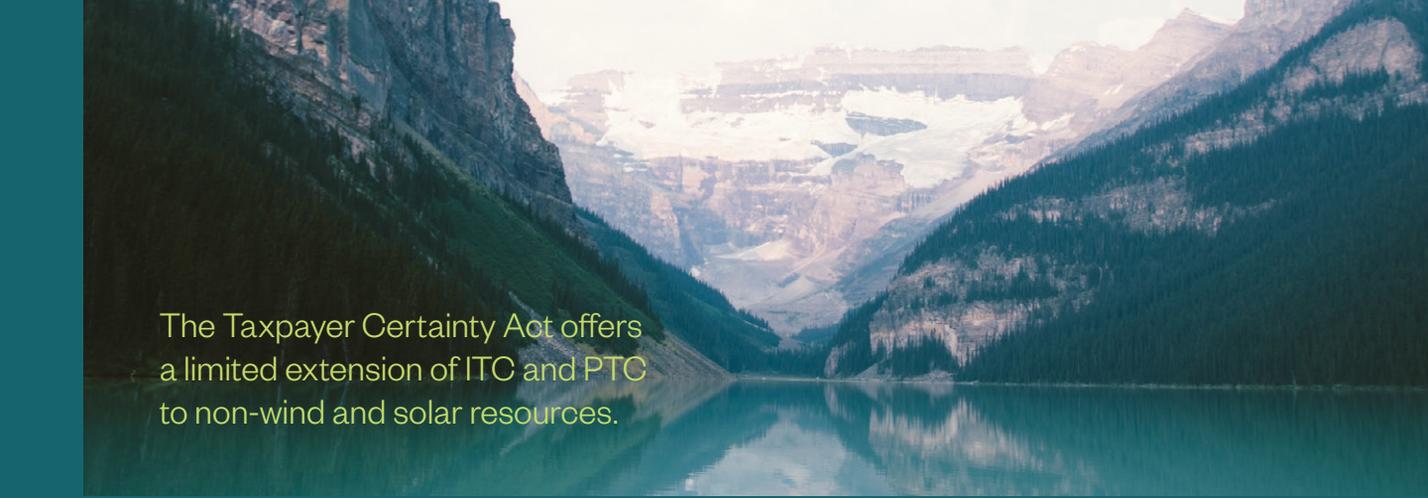
*For open-loop, small irrigation, landfill gas, trash, hydropower and marine and hydrokinetic, the PTC rate is reduced by one-half. For certain open-loop facilities, the PTC is available for a five-year period.

For PTC-eligible projects, the indexed PTC rate for 2019 and 2020 at 100% is 2.5 cents per kWh. At 60%, the PTC rate is 1.5 cents per kWh.

In partnership transactions, PTCs are allocated to taxpayer investors in proportion to the amount of gross income from energy sales that’s allocated to investors. For wind projects, Revenue Procedure 2007-65 provides a safe harbor for specially allocating tax attributes to investors in partnership flip transactions.

**For PTC-eligible projects that elect the ITC in lieu of the PTC, the Taxpayer Certainty Act lets taxpayers make the election if construction begins before 2022.

***The Taxpayer Certainty Act also extends the PTC for closed- and open-loop biomass, geothermal, landfill gas, hydropower, and marine and hydrokinetic facilities through 2021.



The Taxpayer Certainty Act offers a limited extension of ITC and PTC to non-wind and solar resources.

SECTION 48

The Section 48 energy credit is a 30% credit—10% for certain energy property—on eligible solar equipment that uses solar energy to generate electricity and is placed in service by the taxpayer. The original use of the eligible property—whether acquired, constructed, reconstructed, or erected by the taxpayer—must start with the taxpayer.

For solar energy properties, the ITC rate is subject to a phaseout if the construction begins before 2022.

ITC-eligible energy property generally includes solar equipment that's tangible personal property integral to the proper functioning of the qualifying facility, such as:

- PV panels
- Inverters
- Storage devices
- Roadways
- Fencing

The basis of eligible solar equipment is reduced by 50% of the credit claimed on the equipment. Accelerated depreciation and bonus depreciation is claimed on the reduced basis.

If ITC property is disposed of or ceases to be ITC property before the end of the five-year recapture period, the ITC for all earlier years is recaptured. If a partner that claimed the credit disposes of its interest in the partnership or reduces its interest in the partnership by more than one-third during the five-year recapture period, the ITC may be subject to recapture.

The Budget Act extends the ITC for certain facilities in addition to solar. Specifically, the Budget Act extends ITC to qualified equipment using geothermal heat pumps as well as these qualified properties:

- Fuel cell property
- Qualified microturbine property
- Combined heat and power property
- Qualified small wind energy property
- Fiber-optic solar property

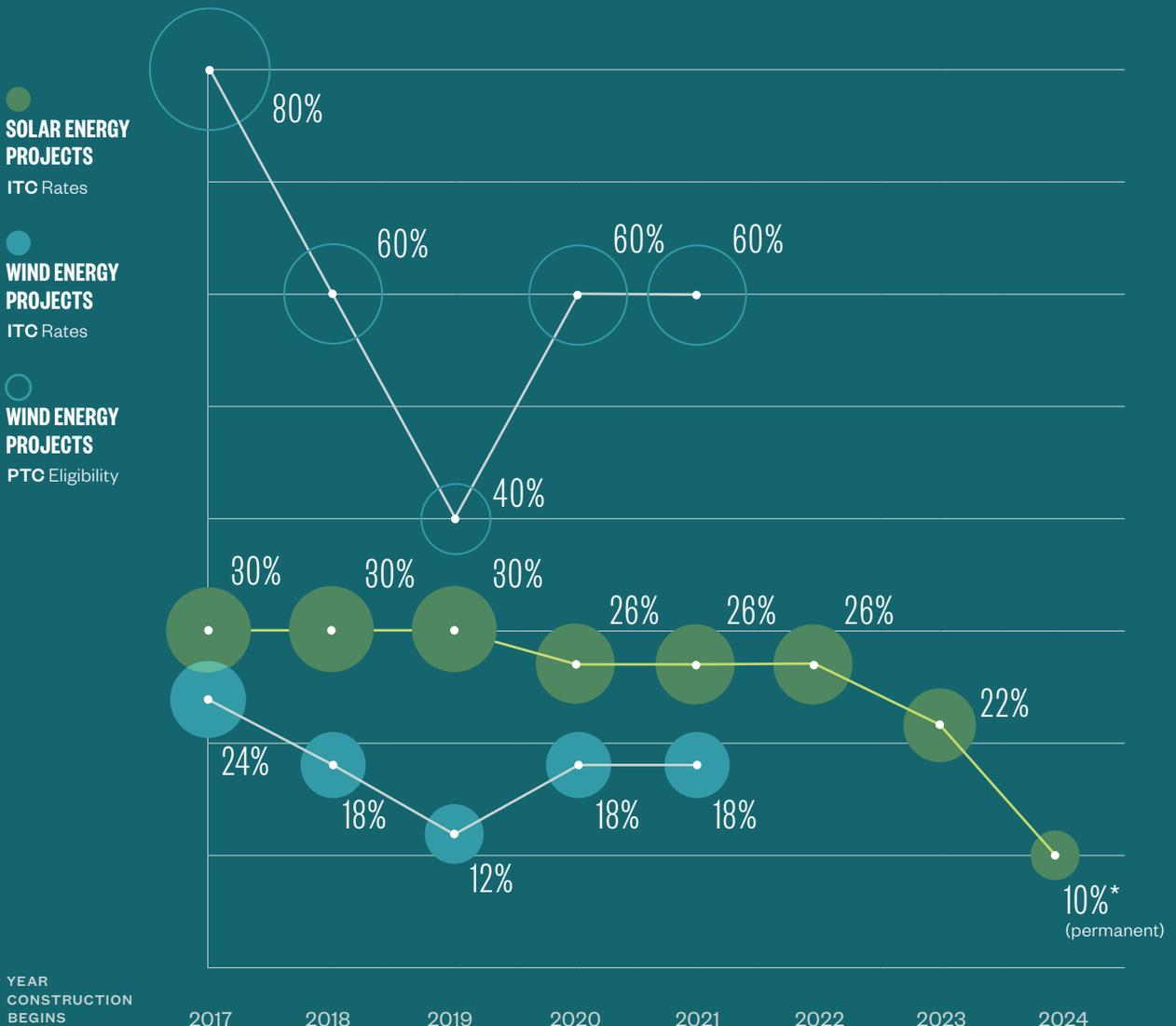
For these properties, it imposes a *beginning of construction* deadline of December 31, 2021. The Budget Act phases out the ITC for qualified fuel cell, small wind, and fiber-optic solar properties. If they're placed in service before 2024, the ITC percentage is reduced to 26% if construction begins in 2020 and 22% if construction begins in 2021. This matches the extension and phaseout for solar property as provided in the Path Act.

2021 UPDATE

For solar energy properties that begin construction in 2020 and 2021, the Taxpayer Certainty Act extends the ITC rate to 26%. Facilities that begin in 2023 are eligible for the 22% ITC rate. Facilities that begin construction after 2025 are subject to the 10% ITC rate.

Offshore wind projects that began construction after 2016 and through 2025, and that elect to claim ITC in lieu of the PTC, will qualify for the 30% ITC under the Taxpayer Certainty Act. The four-year window to complete the project is still applicable. For offshore wind projects that begin construction after 2021, the option to claim PTC isn't available.

PHASEOUT SCHEDULE: SECTION 45 & SECTION 48 CREDITS



*For projects that commence after 2025, the ITC rate is 10%—regardless of when construction began

ITC RECAPTURE PERCENTAGES FOR RENEWABLE ENERGY PROPERTIES

Year property is sold or loses ITC status	Percentage recaptured
1	100%
2	80%
3	60%
4	40%
5	20%
6+	-

SOLAR ITC SAFE HARBOR

The safe harbor protection provided in Revenue Procedure 2007-65 for wind energy partnership flip structures doesn't extend to solar equipment on which ITC is claimed, but many solar ITC structures are flip partnerships and have been structured similarly.

OFFSHORE WIND ENERGY PROJECTS

The Taxpayer Certainty Act retroactively extends the 30% ITC to qualified offshore wind projects if construction begins before 2027.

Tax Reform

Tax reform contains many business and international provisions that broadly apply to the energy sector.

BUSINESS PROVISIONS

Permanent Tax Rate Reduction

The cornerstone of tax reform is the 21% flat corporate income tax rate, effective January 1, 2018. Although a lower corporate tax rate is mostly viewed as friendly toward investors and businesses in general, a lower tax rate also effectively lowers the value of credits and accelerated depreciation, which lowers the return—and value—generated by renewable energy projects. Most expect the risk of lower returns to be borne by the sponsors of the projects. For tax equity projects placed in service before tax reform, in contemplation of lower corporate tax rates, many tax equity investors began including provisions in their agreements to allow a repricing of the project once new corporate tax rates were enacted.

Repeal of AMT

Beginning in 2018, corporate alternative minimum tax (AMT) is repealed. Taxpayers with AMT credit carryforwards can use the credit to offset regular tax and claim a refund of any remaining carryforwards. In years before 2021, taxpayers can claim a 50% refund of the AMT credit that exceeds their regular tax liability. Any remaining credit that's carried forward will be refundable in 2021.

100% Expensing

Bonus depreciation increases to 100% for qualified property placed in service after September 27, 2017. Under prior law, bonus depreciation was only available for property that was originally placed in service by the taxpayer. However, under the TCJA, 100% bonus depreciation applies to original use and used qualified property. Bonus depreciation is phased down by 20% for each of the five years following 2022. Taxpayers can elect to apply 50% in the first tax year after September 27, 2017.

Interest limitation

Beginning in 2018, the TCJA limits the deduction of interest for all businesses with net interest expenses exceeding 30% of adjusted taxable income (ATI). Following similar definitions of ATI in Section 163(j), ATI is computed as taxable income before depreciation, amortization, and depletion, generally making ATI equivalent to earnings before interest, taxes, depreciation, and amortization (EBITDA), for the first four years. After that, ATI is decreased by depreciation, amortization, and depletion, generally making ATI equivalent to earnings before interest and taxes (EBIT).

Net Operating Losses

For net operating losses (NOLs) arising in tax years beginning after 2017, NOL carryforwards are limited to 80% of taxable income but the carryforward period is indefinite in most cases. Under the TCJA, NOLs can no longer be carried back. For NOLs incurred by taxpayers in taxable years beginning prior to 2018, the carryforward period of 20 years is grandfathered in.

CARES Act

Under the CARES Act, the IRC Section 163(j) limitation amount increases from 30% to 50% for 2019 and 2020. Partnerships, however, remain subject to the 30% limitation for tax years beginning in 2019. In addition, all taxpayers—including partnerships—may elect to use their ATI for a tax year beginning in 2019 to compute their IRC Section 163(j) interest deduction limitation for their tax year beginning in 2020.

The CARES Act temporarily suspends the TCJA prohibition on carrying back NOLs and also suspends the TCJA 80% NOL limitation. NOLs generated in 2018, 2019, and 2020 can be carried back to the five preceding tax years, and NOLs generated in tax years beginning before 2021 aren't subject to the 80% NOL limitation.

For a complete analysis of the CARES Act and other topics related to the COVID-19 pandemic, visit our [COVID-19 Implications resource page](#).

Contributions in Aid of Construction

The TCJA modifies the definition of a contribution in aid of construction (CIAC) under Section 118. Previously, this section allowed taxpayers to exclude contributions to a corporation's capital from taxable income. The new definition treats the contribution of qualified facility transfer property—such as network upgrades or interties—to public utilities by nonshareholders as taxable income. It's anticipated that utilities receiving these contributions will try to pass the burden of this increased property cost to the developer or contributor of the property. The TCJA applies to contributions made after the date of enactment.

20% Deduction for Qualified Business Income

Another centerpiece of tax reform is 199A. This section provides a deduction equal to 20% of certain domestic qualifying income, known as qualified business income (QBI). The 20% QBI deduction applies to certain pass-through businesses, such as sole proprietorships,

S corporations, and partnerships, including trusts and estates as well as dividend income from real estate investment trusts (REITs). However, the deduction is limited in the case of taxpayers who provide professional services. It's also limited to 50% of the tax filing entity's W-2 compensation.

Capital-intensive businesses that pay little in W-2 wages can apply an alternate limitation where the QBI deduction is limited to 25% of W-2 wages plus 2.5% of unadjusted basis of all qualified property. The QBI deduction expires after December 31, 2025.

Repeal of Technical Terminations for Partnerships

The technical termination rules contained in Section 708(b)(1)(B) are also repealed. Under prior law, a technical termination of a partnership could occur as the result of a sale or exchange of 50% of the capital and profit of a partnership in a 12-month period. Technical terminations could result in unfavorable tax consequences, such as having to restart depreciation lives and other compliance burdens. However, they could also be used for favorable tax planning, such as resetting a taxpayer's less favorable or erroneous accounting methods. This provision applies to partnership tax years beginning after December 31, 2017.

Built-In Losses

For purposes of Section 734(d), the TCJA changes the definition of a substantial built-in loss. To ensure partners can't duplicate losses as a result of a transfer of a partnership interest, the TCJA adds a mandatory basis adjustment that prevents transferring a loss in excess of \$250,000 to the transferee partner. Specifically, there's a substantial built-in loss if the transferee receives a net loss greater than \$250,000 upon hypothetical sale of the partnership's assets in a taxable transaction, immediately after the transfer of the partnership interest.

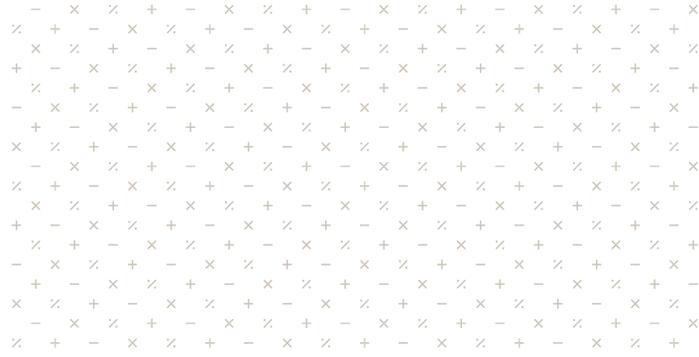
INTERNATIONAL PROVISIONS

Territorial Regime

The TCJA contains sweeping changes to the taxation of multinational entities, including a shift from a worldwide system of taxation with deferral to a territorial system. Under the new territorial system, US multinationals generally aren't taxed on the income of subsidiaries earned outside of the United States. Instead, for distributions from foreign subsidiaries made after December 31, 2017, the TCJA exempts 100% of the foreign-source dividend income received by the US parent.

Transition Tax

The TCJA provides a one-time transition tax on a US shareholder's pro-rata share of its foreign subsidiaries' post-1986 earnings and profits that haven't been subject to US taxation. The tax rate is generally 15.5% on liquid assets, including cash, cash equivalents, and accounts receivables as well as 8.0% on all other illiquid assets. US shareholders are allowed to elect to pay the transition tax over eight years or fewer. If the taxpayer elects to do so, they may pay 8% of the tax in each of the first five years, 15% in the sixth year, 20% in the seventh year, and 25% in the eighth year.



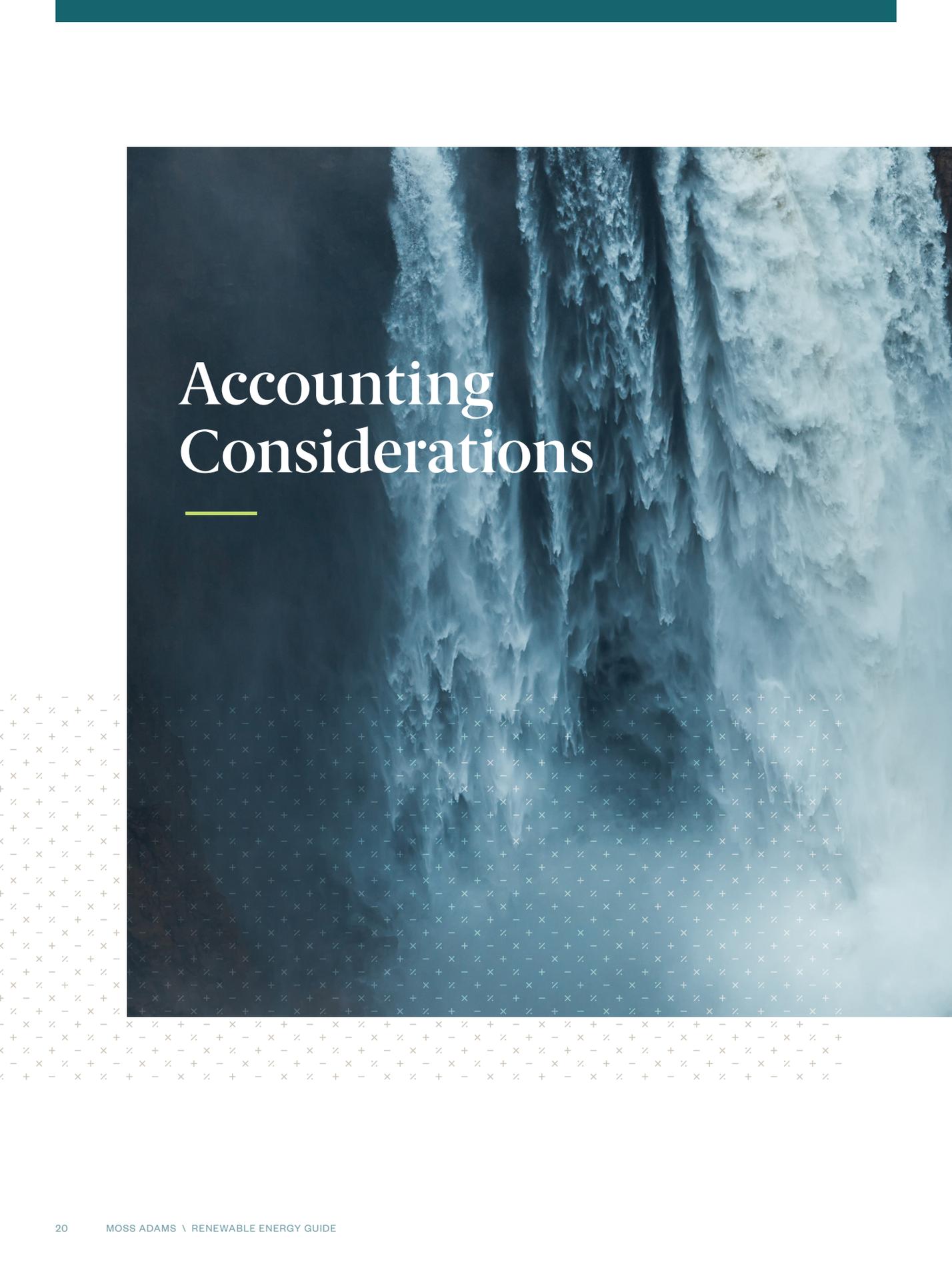
Prevention of Base Erosion

The TCJA contains several other international provisions to defer the erosion of the US tax base and promote US production. It imposes a minimum tax on global intangible low-taxed income (GILTI) and a Base Erosion Anti-Abuse Tax (BEAT).

GILTI is the aggregated net income of the controlled foreign corporations of a US shareholder. That income will be eligible for certain deductions that would lower the effective tax rate on income subject to this tax, which is reduced to a maximum of 10.5% for taxable years beginning after December 31, 2017, and before January 1, 2026, and to 13.125% after that.

BEAT applies to corporations subject to US net income tax with average annual gross receipts of at least \$500 million and that have made related-party payments totaling 3% or more of the corporation's total deductions for the year. The BEAT is determined by adding back to taxable income all base erosion payments made to a foreign affiliate for the year. The amount owed is the excess of 10% of the corporation's modified taxable income over its regular tax liability for the year for years 2019–2024. For 2018, the rate is 5%. After 2024, the rate is 12.5%.

For taxable years beginning after December 31, 2025, the BEAT rate increases to 12.5%. In a win for the tax equity market, PTCs and ITCs—and other Section 38 credits, such as low-income housing credits—can be applied against the BEAT, subject to a 20% reduction. R&D credits are allowed 100% against the BEAT. After 2025, credits won't be allowed to offset the BEAT.

The background of the page features a large, vertical image of a waterfall with white, frothy water cascading down. The waterfall is set against a dark, almost black background. In the lower-left corner, there is a decorative grid of small, light-colored mathematical symbols, including plus (+), minus (-), multiplication (x), and division (÷) signs, arranged in a regular pattern.

Accounting Considerations

The business activities of a renewable energy project are often limited to energy production, so the reporting may be less complex than for a full operating company. Nonetheless, several technical accounting matters often require detailed analysis.

Reporting Equity—HLBV

Renewable energy projects are typically structured as partnerships where the operating agreement governs the allocation of income and loss and credits. An operating agreement may require income and loss sharing ratios that vary over the life of the project.

Often, the equity investors in a project will need to apply the equity method to their investments and the question that arises is how does an investor account for its ownership in a project when the interest in the project and its attributes—income and loss—is dynamic over the life of the project.

In the case of renewable energy projects where an investor's interest in the investment varies, investors usually require that the hypothetical liquidation at book value (HLBV) method be used to allocate the net assets of a project to the investors at a financial reporting date.

In a typical HLBV model, the net assets of a project entity are allocated to the investors based on their respective capital balances as determined under the liquidation provisions of the operating agreement.

Following HLBV accounting, the project assets are deemed sold at their book carrying values under a hypothetical sale scenario, liabilities are settled, and the remaining cash is distributed to the partners in liquidation of their interest.

How the liquidating cash is distributed, referred to as the liquidation waterfall, is determined based on the provisions in the operating agreement. In some cases, the standalone financial statements of a renewable energy project include the HLBV allocation, while other times the analysis is maintained separately.

Energy Sale Contracts—PPAs

Historically, most renewable energy projects enter into a long-term PPA where the offtaker—in most cases, a public utility—agrees to take output from the project for a fixed or scheduled price. More recently, so-called **virtual PPAs** are used when corporate or financial offtakers agree to pay for energy output.

The reporting of energy sales often is simple and, most commonly, revenue is booked based on energy generated and contracted prices. Regardless, it's prudent to assess energy sale contracts for other complexities that can arise.

A typical analysis looks at whether an energy contract:

- Meets the financial reporting definition of a *derivative instrument* and, if so, whether the so-called normal exception can be applied
- Should be accounted for as a lease—of the project asset to the offtaker—and, if so, the impact on financial reporting
- Is recorded based on energy generated and the contracted prices

A closely related item is accounting for energy-related attributes, such as renewable energy credits (RECs). In some cases, all RECs are sold with the energy to the offtaker while in other cases the project keeps RECs and can sell them in separately negotiated transactions.

Leases

In 2016, the Financial Accounting Standards board (FASB) issued new US generally accepted accounting principles (GAAP) that significantly impact accounting for revenues and for leases. For renewable projects, there may be unique interplay between the standards and, in any case, the impact of the new guidance must be assessed.

Renewable energy projects typically have at least two significant lease accounting matters to address. One is related to the energy sale agreements and the other is related to the land leases that are usually in place as the project assets are often installed on leased land. The reporting for land leases by a renewable energy project will require the same technical analysis that would be required by any operating company.

Plant Assets

For project developers, the guidance for project cost capitalization is similar to what applies to a significant self-constructed asset. For example, solar or wind turbine supply agreements can be complex with multiple facets, including potential extended warranty payments and contingent payments based on operating performance.

Often, developers acquire project rights and then go on to construct the operating asset group. For those situations, it's prudent to conduct analysis of the acquisition of the project rights as an asset purchase or, possibly, a business and an allocation of the acquired rights.

Project developers often conclude there's a requirement for the project to restore the property to its original condition when the lease is terminated. In many cases, this creates an asset retirement obligation to the project and an asset that's built into the fixed asset basis.

An expected present value technique is usually the only appropriate technique to estimate the liability for an asset retirement obligation.

Debt

Many renewable energy projects are debt-financed. This may result in a project holding financial derivatives such as interest rate swaps or caps. The reporting for these elements by a renewable energy project will require the same technical analysis that would be required by any operating company.

Tax Credits

These are usually accounted for in the financial statements of the investor that applies the credit against its tax liability. There are two acceptable methods for accounting for ITCs and PTCs.

TAX BENEFIT METHOD

The taxpayer treats the tax credit as a permanent tax provision benefit in the period in which the credit is earned.

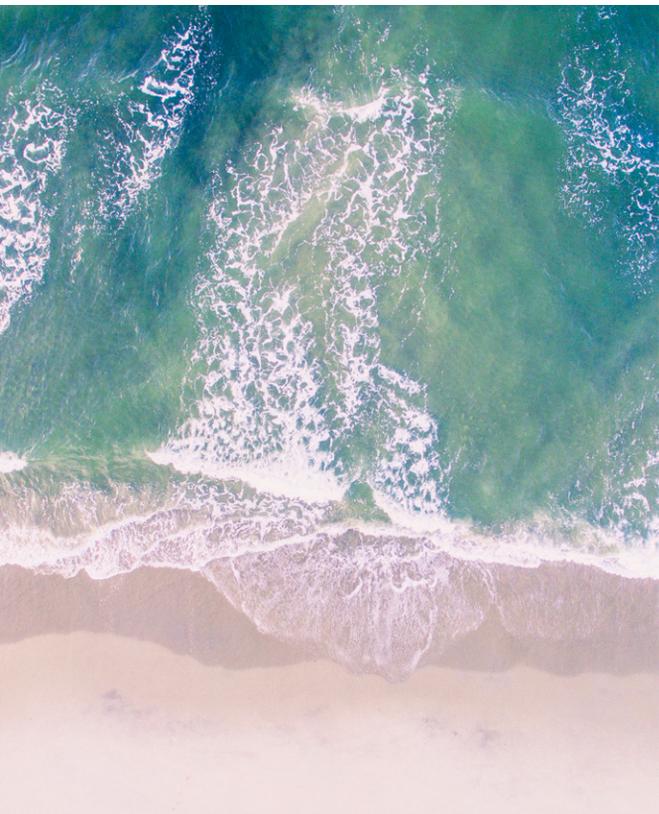
GRANT METHOD

Also known as the deferred method, the benefit of the tax credit is taken through earnings before income taxes (EBIT) or earnings before income taxes and depreciation (EBITDA), rather than through income taxes.

Income Tax

Partners that are subject to income taxes must account for income taxes under FASB Accounting Standards Codification® (ASC) Topic 740.

Taxpayers need to record deferred taxes for any differences between the book and tax bases in the assets or investments resulting from the ITC haircut, which requires the basis of ITC assets to be reduced by 50% of the credit claimed, and accelerated depreciation or both.



Partnership Flips

A question that often arises around partnership flip structures is how to account for basis differences where a taxpayer may claim 99% of the partnership's tax attributes for a certain period of time followed by a flip and a period of time where the taxpayer claims 5% of the partnership's tax attributes.

Generally, taxpayers should track the basis differences in the investment account, rather than look through the partnership and apply the current sharing ratios to the partnership's underlying asset's basis differences.

By tracking the book investment account and the tax investment account, a taxpayer can account for the basis differences even through variations in ownership of the partnership's underlying assets.

The same concept applies when a taxpayer may be required to consolidate a variable interest entity and record a noncontrolling interest. In such cases, the taxpayer will generally track the net investment basis between book and tax and record deferred taxes for the difference.

For more information on how to account for your next renewable energy project investment or how to effectively claim tax credits and incentives for it, contact your Moss Adams professional.

mossadams.com/renewableenergy

About Our Renewable Energy Practice

With a rare blend of technical excellence, creativity, and social responsibility, Moss Adams helps renewable energy companies inspire the world to discover and claim the future. Whether your business is in the development of renewable energy resources or other environmentally friendly technologies, your engagement team shares your entrepreneurial ethos and has the industry-specific experience to help your company concentrate on what really matters: creating a cleaner, more sustainable future.

We've been serving the needs of clean technology and renewable energy companies for decades, helping them take advantage of federal and state incentives and tax credits, wade through existing regulations, and develop effective strategies for the future.

WHO WE SERVE

With extraordinary potential in the renewable energy industry, our professionals help guide wind, solar, landfill, gas, biomass, hydropower, and geothermal project stakeholders, including:

- Developers
- Cash and tax equity investors
- Contractors, engineers, and manufacturers
- Independent power producers and utilities

RENEWABLE ENERGY SERVICES

In addition to traditional assurance and tax services, such as state and local and property taxes, we offer a full spectrum of consulting services for renewable energy investments and projects:

- Mergers and acquisitions
- Transactions planning
- Internal control reviews
- Credits and incentives, including R&D, and credit monetization and exchanges
- Valuations
- Cost segregation studies

As you explore your next opportunity, we invite you to discover how Moss Adams can help you thrive.

About Moss Adams

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