



Tax and Dividends

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Taxes – Part 1

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Taxes are **costs** to a **project** which need to be **modelled like any other cost**

Need to distinguish between



VAT

Temporary cash flow only,
recoverable if project company
is supplying goods/services
subject to **VAT**



Sales Taxes and Customs Duties

Permanent loss of cash –
project expense / increased
procurement cost



Taxes on Profits

Income or corporate tax:
Permanent loss of
cash –project expense

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VAT Example

	Excl VAT	+ VAT 20%	Incl VAT
Sales	100.0	20.0	120.0
Purchases	60.0	12.0	72.0
Net Margin	40.0	8.0	48.0



What is the true **net margin to the business?**

£40 or £48?

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Duty Example

Imported Component		\$1,000.00
Exchange Rate		1.21
Cost in £		£826.45
Customs Duty	10.0%	£82.64
Cost including Duty		£909.09



What is the **true cost to the business?**

£826 or £909?

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Taxes – Part 2

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Income/Corporate Tax

$$\text{Tax Payable} = \text{Taxable Income} \times \text{Tax Rate}$$



Global Tax Rates

Tax rate applies in the **country in which we are operating**



Making a Loss

They will pay no tax, but they do get the right to use that loss at some future period



Net Operating Loss

Next time the business has **positive taxable income**, we will **deduct any losses** from previous years

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Depreciation Rates



Companies can **decide their own depreciation rates**



Depreciation allowance is set down in **legislation**

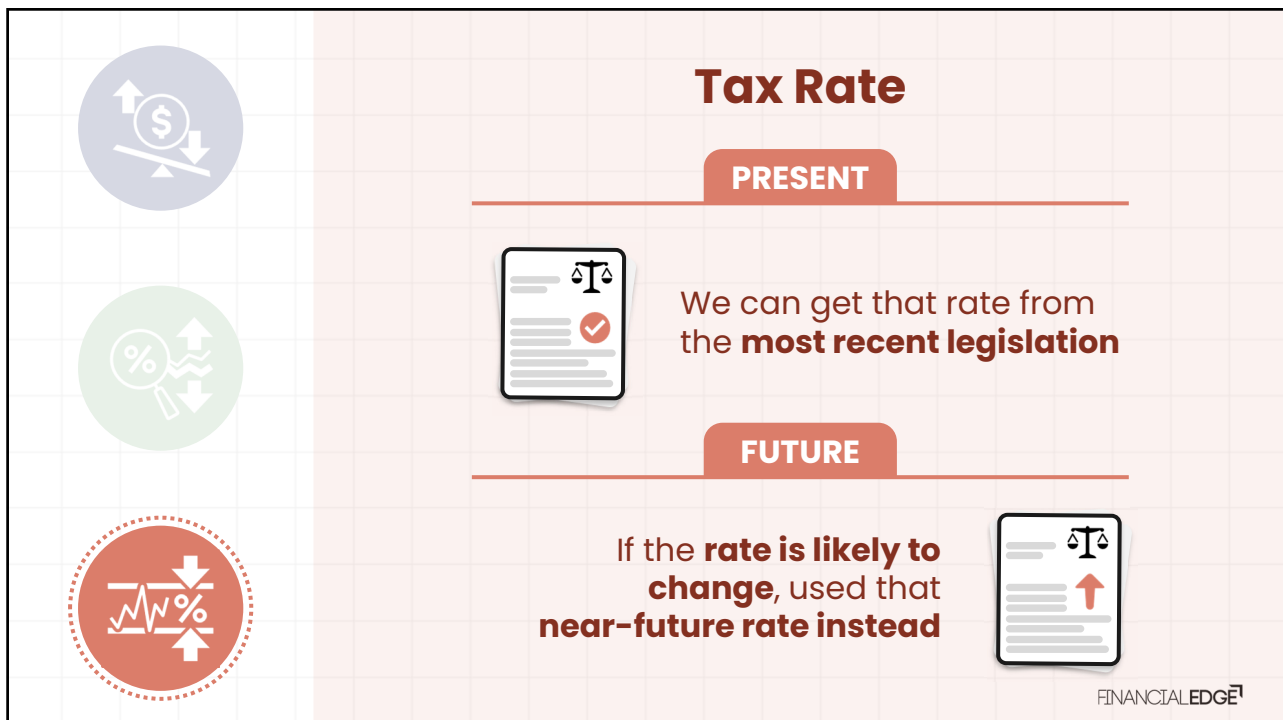
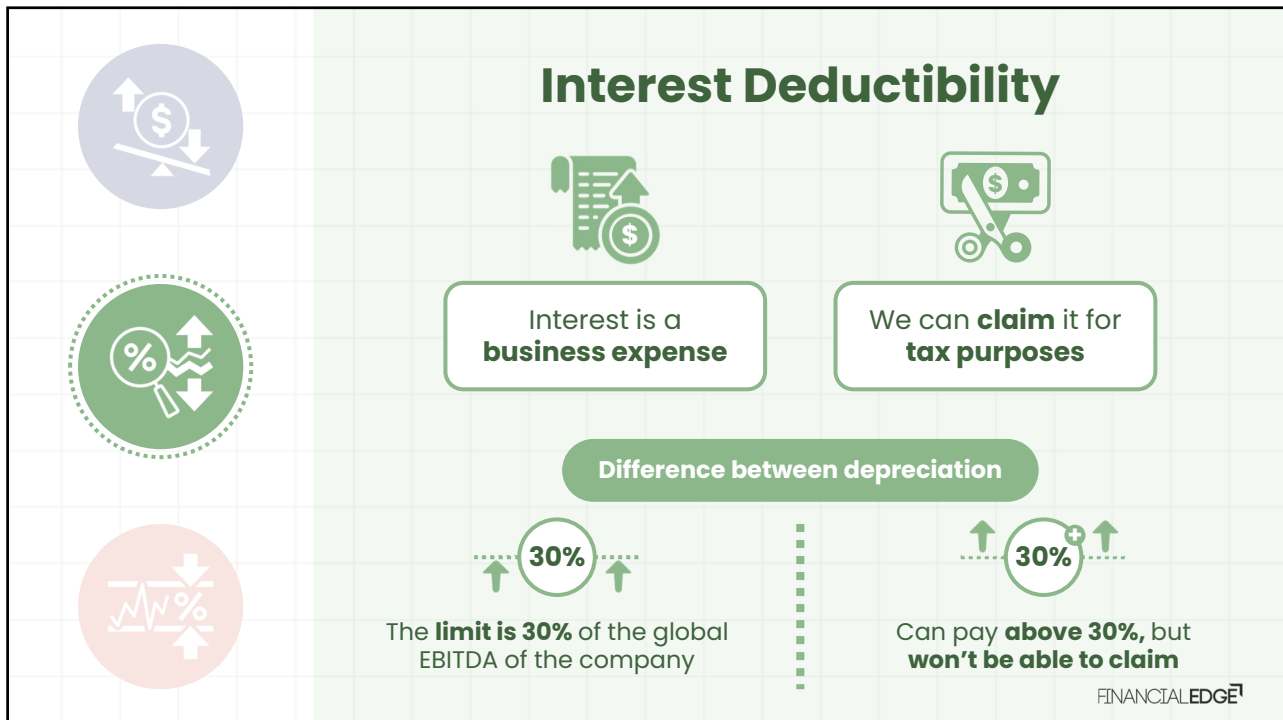
Difference between depreciation

Income statement

Internal rate

Rate for tax return

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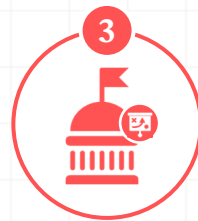
Government Policy Support

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Governments around the world want to encourage investment in renewable energy, for **job creation** and **meeting net zero targets**



Different governments have **different schemes to support the industry**, and **different levels of support**



Government schemes **may include:**

Direct Subsidies

Fossil fuel energy producers **pay renewable generators directly**

Favourable **Tax Regimes**



These schemes change as **equipment costs** and **efficiencies change** (and as government financial capacity changes)

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Government Policy Support - UK

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UK government **support for new schemes** is **not as generous** as it was



This is due to **improved project viability** from **lower capex** and **operating costs**

UK Government	
100% Annual investment allowance	Limited to £1m pa
100% Capital allowance for energy-saving equipment	N/A to energy-generating equipment
Smart Export Guarantee Regime: Obligation on power resellers to buy from small-scale producers	Only small-scale operators eligible
Renewables Obligation Certificates (ROCs): Fossil-fuel generation operators required to buy credits from renewable energy schemes	Closed to new schemes in 2017; continues for up to 20 years for pre-2017 schemes
Contracts for Difference (CFD): Government-owned company sets unit price (via an auction) with renewable energy operator & covers difference market price vs contract price (and takes any upside)	Replaced ROCs from 2017. Very small direct subsidies available (up to £10m)
5-Year rent-free lease of seabed from Crown Estate	Applies to offshore wind farms

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Contracts for Difference (CfD)

Some small **direct subsidies** available

Most renewable schemes would **not be able to take advantage** of them



Crown Estate

Rent free lease for the **first five years**

After 5 years, **include rent in model**

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U.S Federal Government



Production Tax Credits

Reduces taxable income for each MWh of power generated

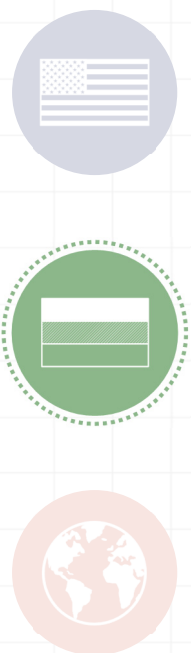


Investment Tax Credits

Extra % of initial capex deductible for tax, with an uplift for using domestically-produced materials and location in certain areas.

Can be transferred to 3rd party ("Tax equity financing")

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German Government





Feed-in -tariffs

- **Ended for new solar projects** 2017, new wind projects 2021.
- Funded by levy on consumers, will end 2023.

Auction tender for capacity volumes

- Market forces are **reducing the subsidy** sought by bidders

Partial tax exemption on small-scale operators

- **On own electricity consumed** ("cannibalisation")

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Other Governments

Spain



Tax incentives in the form of **extra taxes on non-renewable sourced energy**

France



EDF enters into **CfD** arrangements with **renewable producers**

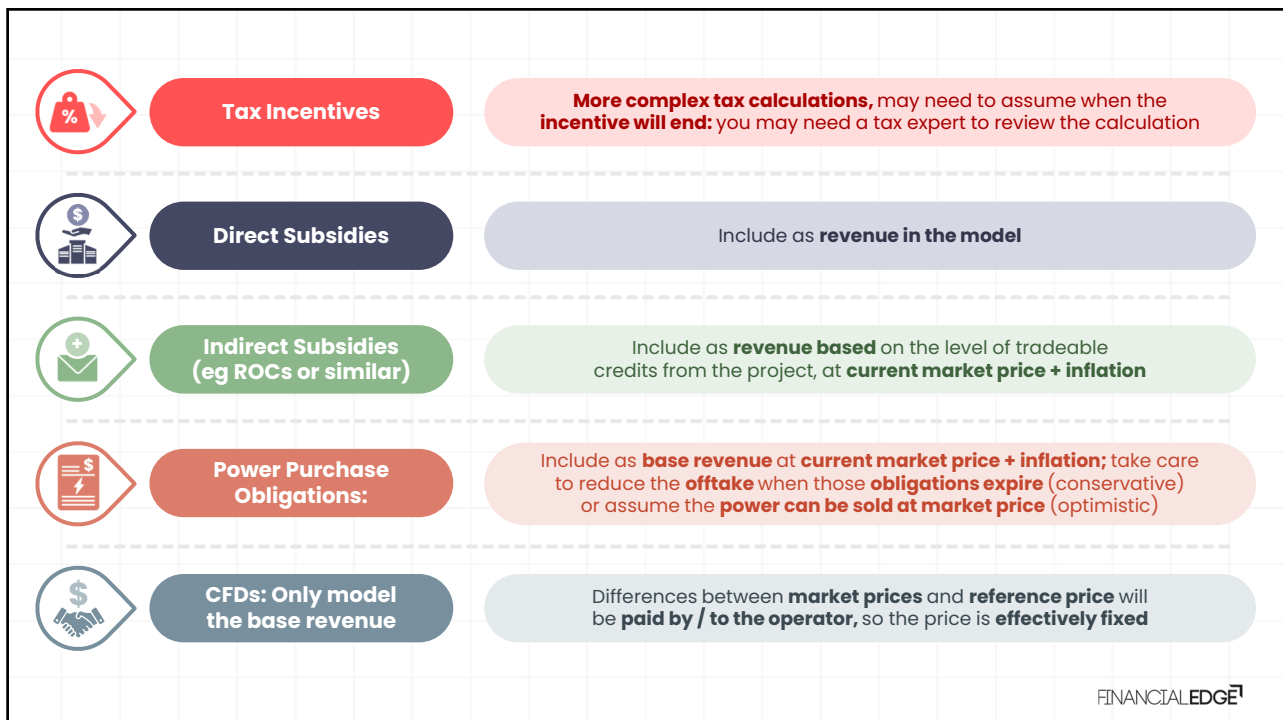
Australia

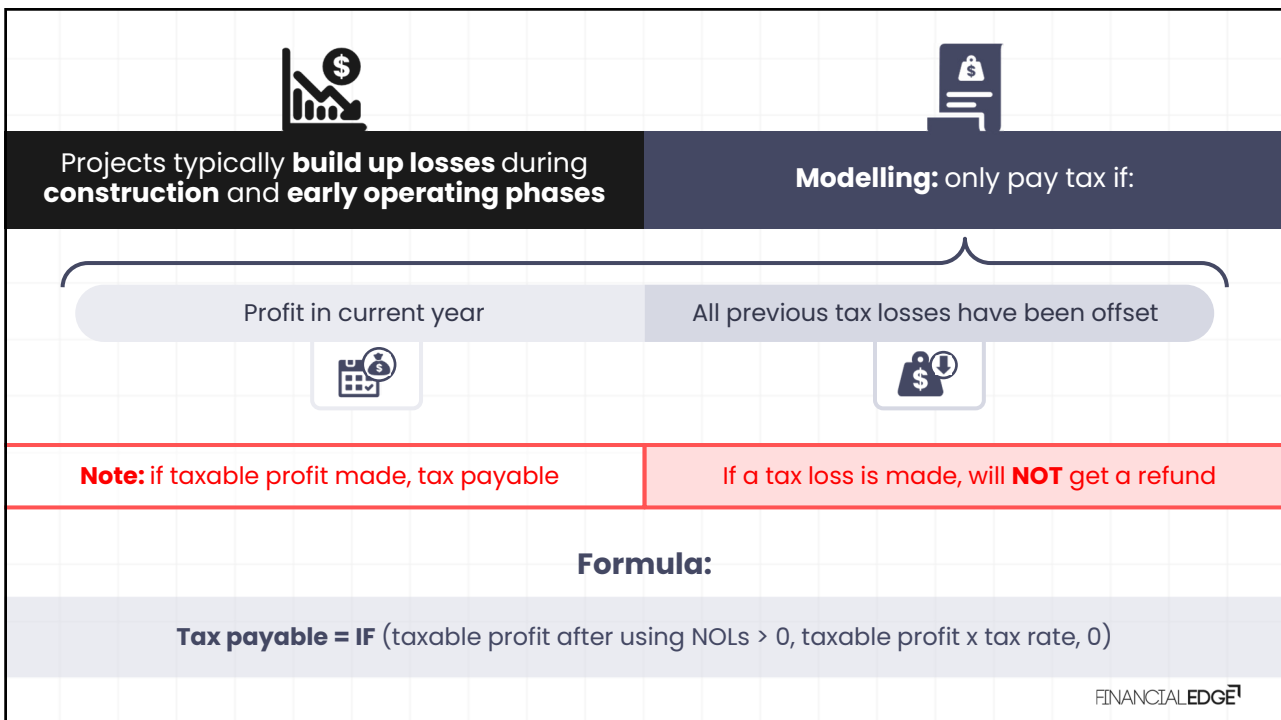
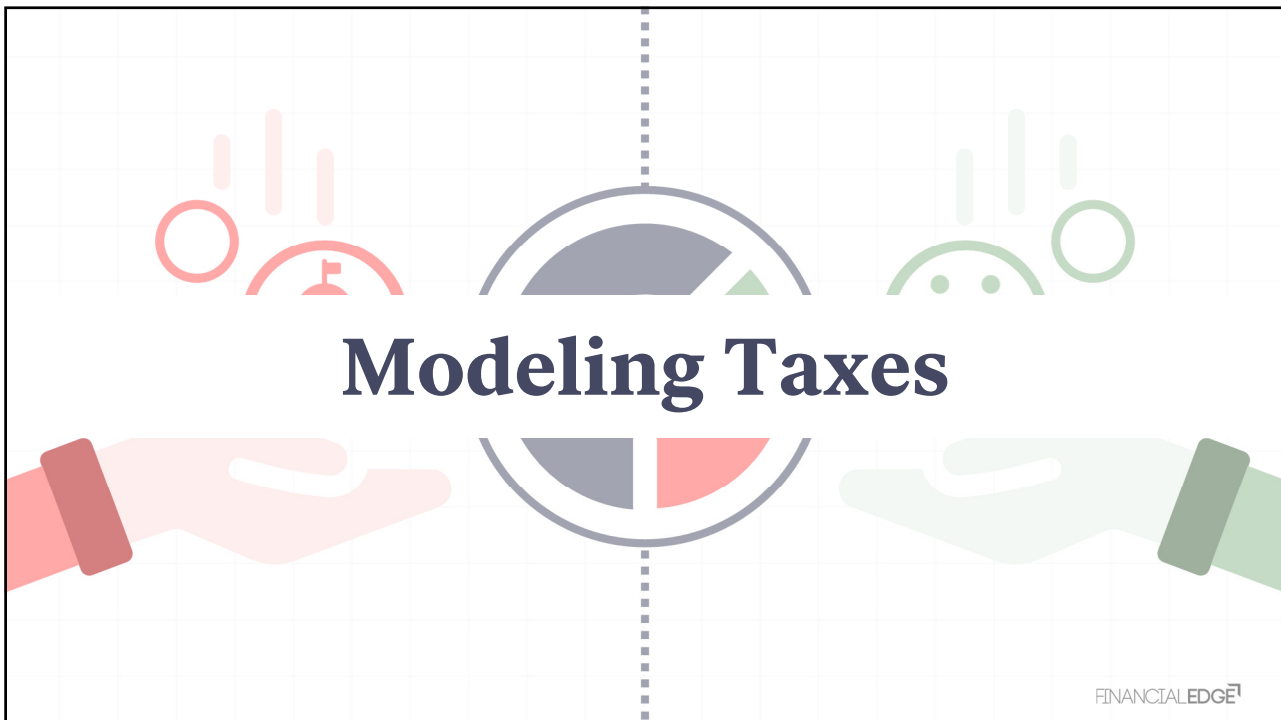


Tradeable **small-scale technology certificates** (stcs)

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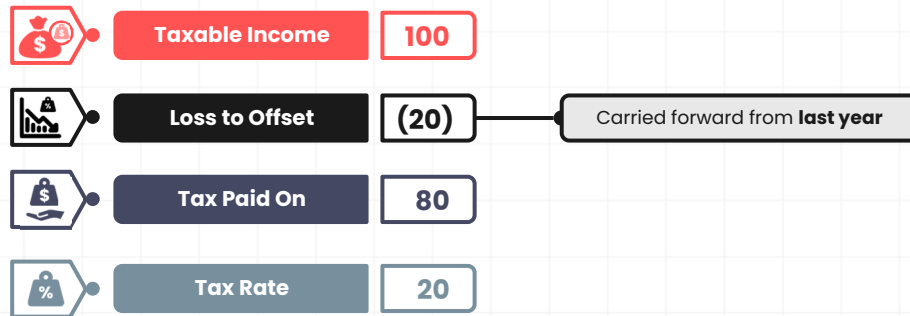
Modelling Implication of Support Programs

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These losses (known as NOLs) are **accumulated & offset vs future profits**

Add another line into the **tax calculation** to check if there are any **NOLs to be used up**:

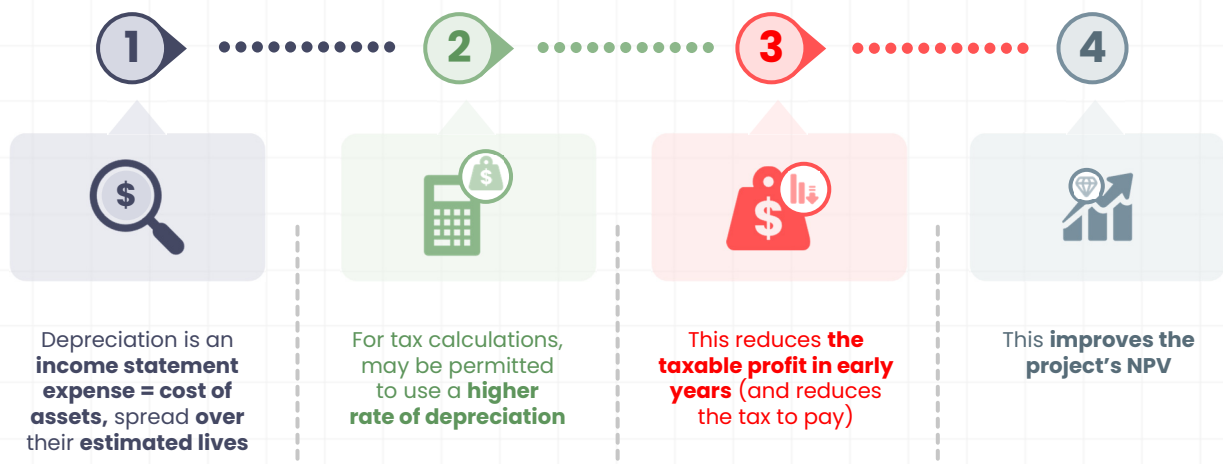


Formula:

= IF (last year's taxable income < 0, last year's taxable income, 0)

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Tax Depreciation



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Tax Shield of Interest

1



Debt interest is a **tax deductible expense**
(within thin capitalisation rules)

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Tax Shield of Interest

2



Thin capitalisation rules are **limits on interest deductions** set by **tax laws**

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Tax Shield of Interest

3



Within **those rules**, the more **interest we pay**, the lower the **tax payable**

Tax Shield of Interest

4



Interest cost after tax = Interest rate x (1 – tax rate)

Modelling Tax Payments

Once calculated how much **tax is owed**, when **will it be paid?**



Usually, have to **pay in instalments: some now, some later**

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The **% paid this year vs next year** is an **assumption**

Any amount owing but not yet paid goes on **the balance sheet**

Tax to pay



Income Statement

Tax to paid



Cash Flow

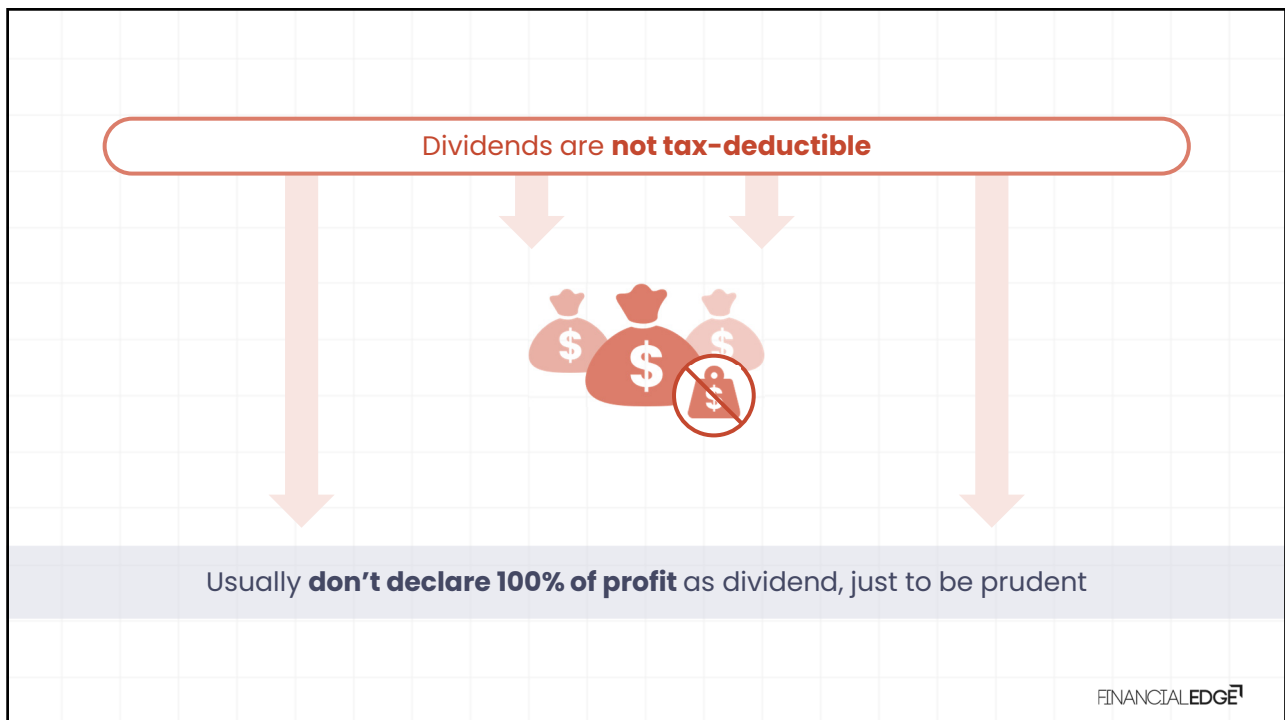
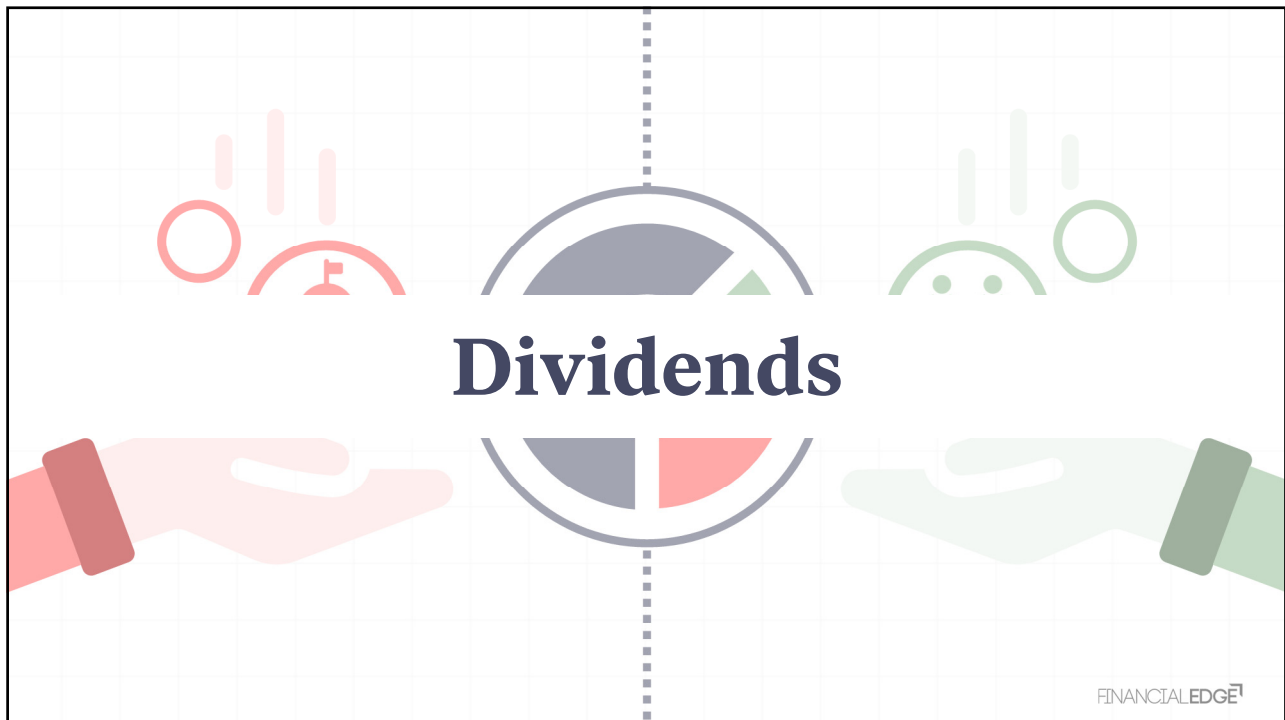
Tax not yet paid

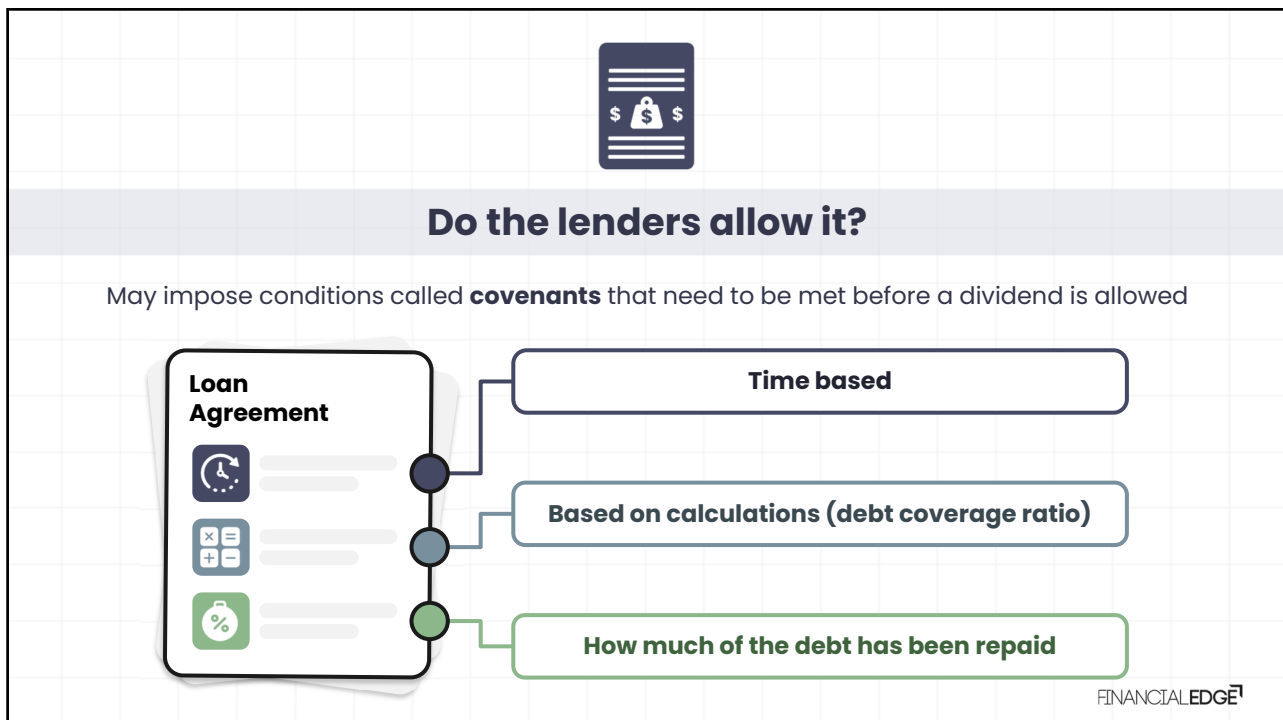
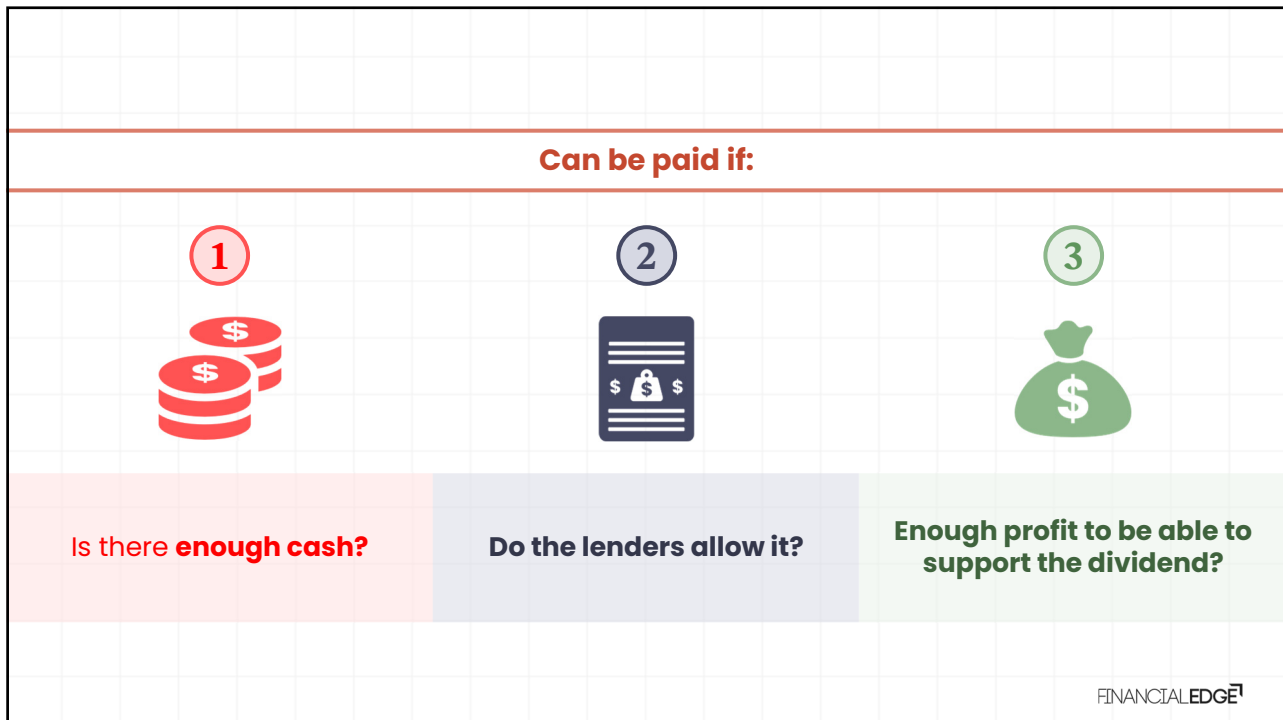


Balance Sheet

In an annual model, the formula for cash outflow each year is:
= This year's tax x % payable now + last year's tax x (1 - % payable now)

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Do the lenders allow it?

May impose conditions called **covenants** that need to be met before a dividend is allowed

Dividend Formula



IF(condition is met, cumulative retained profit x % payout, 0)

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