



# FINPLAN

## Hands-on 6: Setting up a case study for a single combined cycle power plant

Useful references:

- 1) [Download the FINPLAN software](#)
- 2) [FINPLAN Manual](#)
- 3) [Completed Hands-on 6 case study \(before financially balancing the case study\)](#)
- 4) [Completed Hands-on 6 case study \(after financially balancing the case study\)](#)
- 5) [Video Tutorials](#)
- 6) [FINPLAN Discussion Forum](#)

## Learning outcomes

This exercise will help you obtain some hands-on experience on how to use the FINPLAN interface by creating a complete case study to analyze the financial viability and structure of power projects.

In this exercise, you will learn how to set up and assess a single combined cycle power plant.

By the end of this exercise, you will be able to:

1. Set up a new case study in FINPLAN and interpret the results
2. **Adjust a case study to be financially balanced**
3. Export FINPLAN results
4. Check Intermediate results
5. Create the Cash Flow Statement
6. Check the Operating Account
7. Check the Balance Sheet
8. Calculate Financial Ratios
9. Estimate the Shareholder's Return

# Activity 1

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## Set up a new case study in FINPLAN

Background information, economic and financial data on the power plant are below.

### Background information

A utility would like to assess the financial viability of a single combined cycle power plant from 2015 – 2040, financed with a mix of equity and debt instruments in both local currency and US Dollars. After a construction time of 3 years, the 300 MW plant will generate 2,000 GWh from imported gas from 2020 onwards until the end of its lifetime in 30 years. The plant will cost 300 million USD, with expenditures distributed 25%, 50% and 25% over the construction time. A debt-to-equity rate of around 70:30 is envisaged. It is depreciated linearly over 20 years. Electricity can currently (2015) be sold at 0.24 local currency units (LC) per kWh, increasing with inflation. O&M costs are expected to amount to 29.44 million LC. Gas import costs amount to 109 million USD.

### Economic information

- Inflation USD: 1%
- Inflation Local Currency: 5%
- Exchange rate: 3 units of local currency per USD for 2014, 3.2 for 2015; exchange rate reflects inflation rates
- Income tax: 20%, losses to be carried forward, no losses in start year.

### Financial information

- Initial Balance Sheet: 80 million as short-term deposits; 80 million equity
- Sources of financing - USD: 60% export credit over 12 years with uniform principal and interest repayment at an interest rate of 5.5%.
- Equity: 80 initially, 100 million LC in 2017 and 130 million in 2019. No limit to dividends being paid out.
- New Commercial Loans: 60 mil. USD in 2018, 10 mill. in 2019, over 8 years, interest: 3% over inflation
- Bonds: 10 million USD in 2018 over 5 years. Expected rate: 5%
- Short term deposits: interest rate -1% over inflation
- Stand-by facility: interest rate 4% over inflation.



- Shareholder's targeted return data: disposal year 2040 (in which the assets are assumed to be sold), discount rate: 6%
- Terms of project finance loan: 6% discount rate (to calculate the net present value of the cash available in the future), 12 years average loan term, 1.4 security ratio for loan period, 30 years expected life, 1.6 security ratio for project life, 2020 first year of debt service

There is a lot of data to go through, but **don't worry** – this hands-on will guide you to input all the data from above.

First, we need to create a new case study on FINPLAN. From the **background information** section, we know a few things about the project to create a new case study.

### Try it:

1. Create a new case study and name it "CCGT Demonstration".

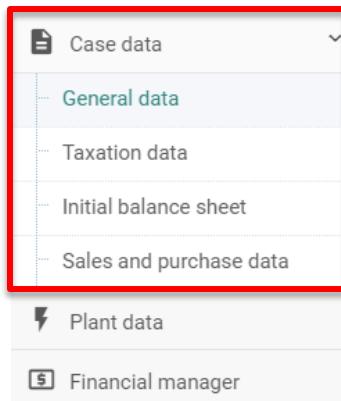
A screenshot of a web-based application for creating a new case study. The top bar has a 'Create new case study' button. Below it, a form field contains the text 'CCGT Demonstration'. Underneath the field is a description: 'Hands-on 6 case study on a single combined cycle power plant.' At the bottom is a green button labeled 'Create case study'.

2. Fill in the "New Case Study" page with information from the background information paragraph. Reading through it, we know the following:
  - a. Starting year: 2015
  - b. Ending year: 2040
  - c. Study type: Single plant
  - d. Local currency: Local currency
  - e. Foreign currency: US Dollar
3. Don't forget to "Save".

General information

Name of the case study	Local Currency
CCGT Demonstration	Local Currency
Start year	Foreign Currencies (Drag & Drop)
2015	Looking for
End year	Local Currency
2040	Afghanistan Afghani
Study type	Albanian Lek
Single Plant	Algerian Dinar
Case description	Angolan Kwanza
Hands-on 6 case study on a single combined cycle power plant.	Angolan New Kwanza
	Argentine Peso
	Armenian Dram
	Aruban Florin
	Australian Dollar

Now, we need to add information for the remaining Case Data (General Data, Taxation Data, etc.). Remember to save your data after each step!



### Try it:

1. In the “Inflation Information” tab, enter the inflation values for both US Dollar and Local Currency. Follow the information from the **economic information** section.



General information **Inflation information** Currency exchange rates

**Inflation information**

US Dollar (%) Local Currency (%)

Steady Rate  Yearly Input 1  Steady Rate  Yearly Input 5

A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.

Year	US Dollar (%)	Local Currency (%)
2015		
2016		
2017		

2. In the next page, "Currency exchange rates", input the data for Local Currency (US Dollar) for the years 2014 and 2015.
3. Tick the "Exchange Rate Reflects Inflation Rates box", as this is also instructed in the **economic information** section at the top of the document.

General information Inflation information **Currency exchange rates**

**Currency exchange rates**

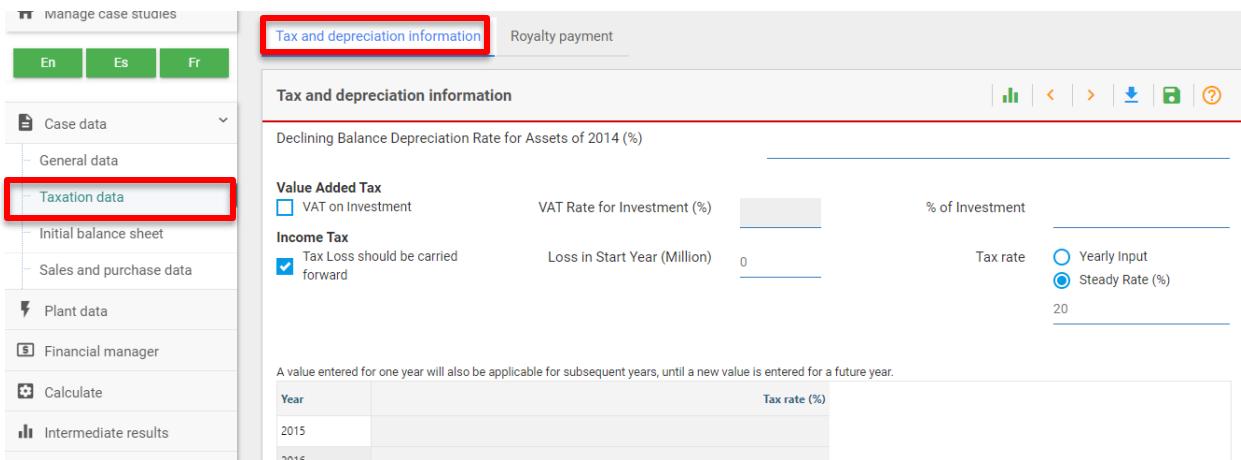
Local Currency (US Dollar) (%)

Steady Rate  Exchange Rate Reflects Inflation Rates  Yearly Exchange Rate

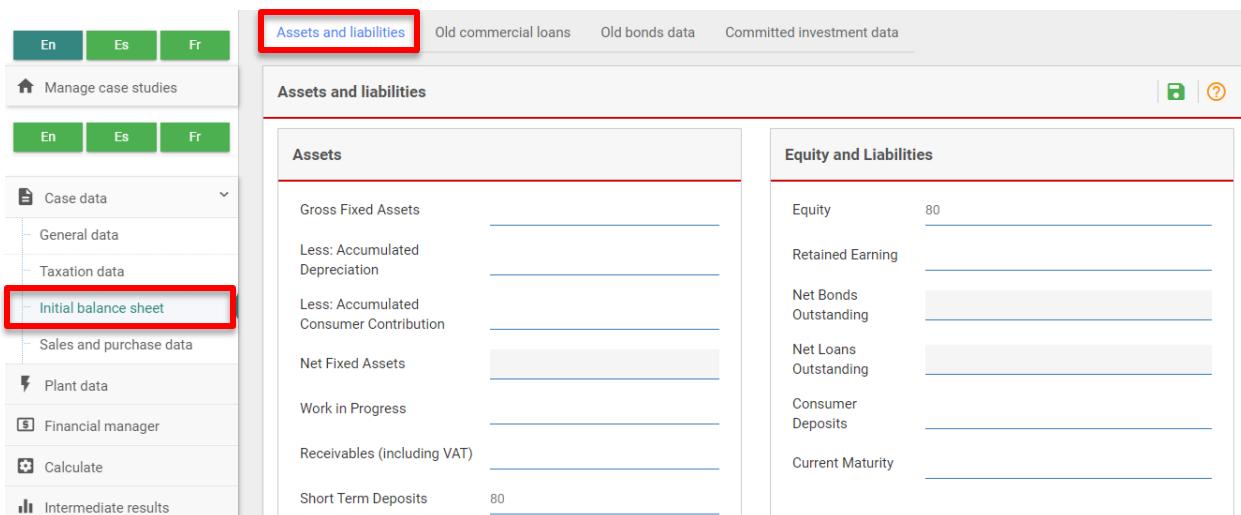
A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.

Year	Local Currency (US Dollar)
2014	3.000
2015	3.200
2016	
2017	

4. Click on "Taxation data" from the menu pane, add in the values for "Tax and depreciation information" following the **economic information** section.
5. We will leave the "Declining Balance Depreciation Rate for Assets of 2014" and "Value Added Tax" sections **blank** as we were not provided with this information in the description of this case study at the beginning of Activity 1.



- Now click on “Initial Balance Sheet” from the menu pane. “Assets & Liabilities” should come up. Input the data for Short Term Deposits and Equity from the **financial information** section. This section tells us that short-term deposits and equity are both at **80 million**.
- We will leave the rest empty as we were not provided with more information.



- Now go to “Sales and purchase data” on the left menu pane. This will take you to “Sales Data”. Click on the + symbol to add data.



The screenshot shows the software's navigation bar with tabs for 'Sales data', 'Purchase data', 'Consumers contribution and deposits', and 'Fixed revenues and other income'. On the left, a sidebar titled 'Case data' lists 'General data', 'Taxation data', 'Initial balance sheet', and 'Sales and purchase data', with the latter highlighted by a red box. The main area is titled 'Sales data' and contains a table with columns for 'Product name and units', 'Client', 'Currency', 'Quantity', and 'Price for first year'. A red circle with a plus sign is overlaid on the 'Product name and units' column header. A red arrow points from the 'Sales and purchase data' sidebar entry to this plus sign.

**9.** From the **background information** section, we know that:

- The power plant will be selling **electricity** for a client.
- Electricity can currently (2015) be sold at **0.24 Local Currency** units per kWh.
- Prices will **increase** with inflation.
- The plant will generate **2,000 GWh** from **2020** onwards.

**10.** Fill the above information in their respective boxes. We will name the client “**Utility**” for this case study.

**11.** To represent a price increase with inflation, we will input **0** into the “Standard Change in Addition to Inflation” box. This will ensure the value is increasing with inflation.

The screenshot shows the 'Sales data' form. The 'Product name and units' field is set to 'Electricity (GWh)'. The 'Client' field is set to 'Utility'. The 'Currency' field is set to 'Local Currency'. Under 'Quantity', the 'Yearly data' radio button is selected. Under 'Price', the 'Standard change in addition to inflation (%)' radio button is selected and set to 0. A table at the bottom shows data for years 2015 to 2020, with 2020 having a quantity of 2,000,000 and a standard change in addition to inflation of 0%.

**Well done!** You have now added in all the Case Data.



We now must add in Plant Data.

**Try it:**

1. Click on “Plant Data” from the menu pane. Now click on the + symbol to add in data.

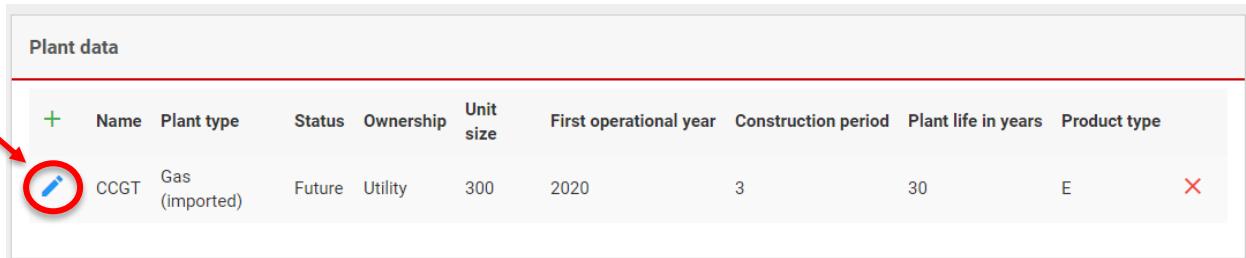
Name	Plant type	Status	Ownership	Unit size	First operational year	Construction period	Plant life in years	Product type

2. Name your plant. For this case study, let's go with “CCGT”.
3. From the **background information** section, we know the following information:
  - Plant type: Imported gas
  - Status: Future
  - Ownership: Utility
  - Unit size: 300 MW
  - First operational year: 2020
  - Construction time: 3 years
  - Lifetime: 30 years
  - Product: Electricity
4. Add the above information accordingly.

Name	CCGT	First operation year	2020
Plant type	Gas (imported)	Construction period	3
Status	Future	Plant life in years	30
Ownership	Utility	Product	<input checked="" type="checkbox"/> Electricity <input type="checkbox"/> Heat <input type="checkbox"/> Water <input type="checkbox"/> CO2
Unit size (MW)	300		

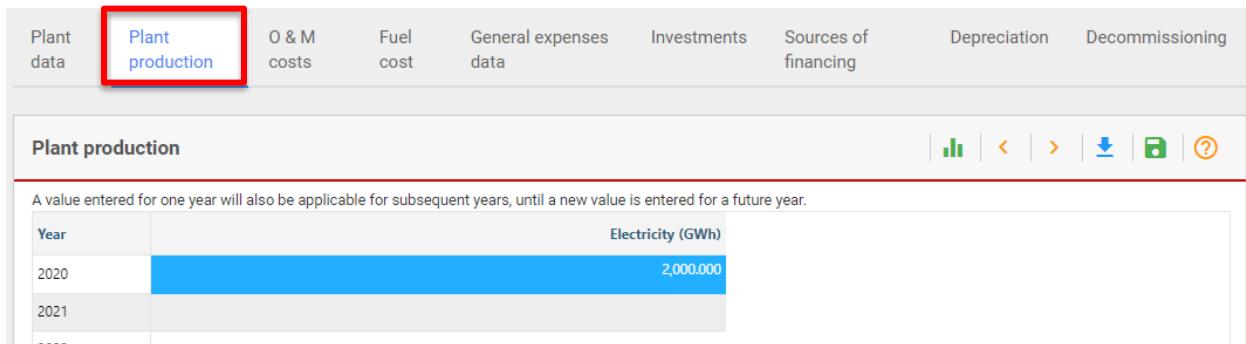


5. Now click on the pencil icon to add more information on the plant (plant data, plant production, O&M costs etc.).



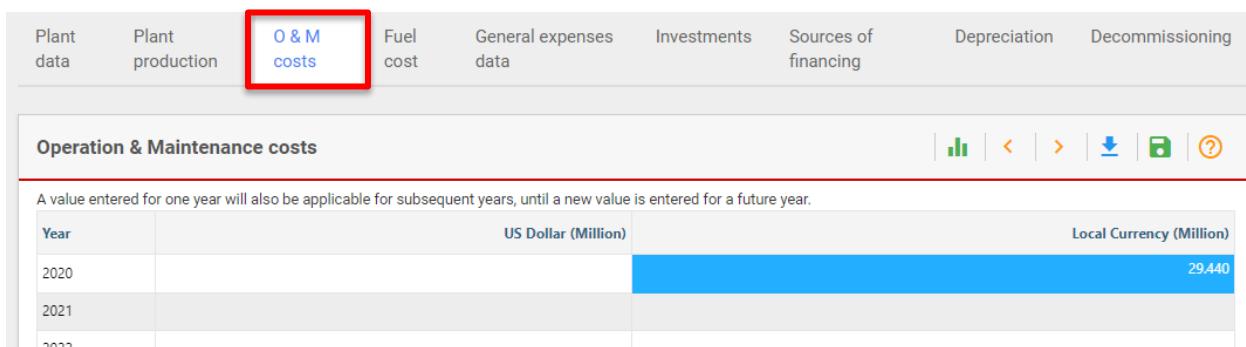
Plant data									
	Name	Plant type	Status	Ownership	Unit size	First operational year	Construction period	Plant life in years	Product type
	CCGT	Gas (imported)	Future	Utility	300	2020	3	30	E 

6. Enter the amount of electricity the power plant will generate in "Plant production". You can find this in **background information**.



Plant data	Plant production	O & M costs	Fuel cost	General expenses data	Investments	Sources of financing	Depreciation	Decommissioning
Plant production								
A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.								
Year				Electricity (GWh)				
2020				2,000.000				
2021								
2022								

7. Go to "O&M costs". Fill in the associated O&M cost following the **background information**.



Plant data	Plant production	O & M costs	Fuel cost	General expenses data	Investments	Sources of financing	Depreciation	Decommissioning
Operation & Maintenance costs								
A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.								
Year				US Dollar (Million)			Local Currency (Million)	
2020							29.440	
2021								
2022								

8. Go to "Fuel cost". Now fill in the associated fuel cost following the **background information**.



Plant data	Plant production	O & M costs	Fuel cost	General expenses data	Investments	Sources of financing	Depreciation	Decommissioning
<b>Fuel cost information</b> A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.								
Year				US Dollar	Local Currency			
2020				109.000				
2021								
2022								

9. We will skip “General expenses data” as we have no information on this.
10. Now we need add in information on investments. Click on “Investments”.
11. Complete this section. You will find the input values in the **background information** section.

Plant data	Plant production	O & M costs	Fuel cost	General expenses data	Investments	Sources of financing	Depreciation	Decommissioning	
<b>Investment cost in constant prices</b>									
US Dollar (Million)				Local Currency (Million)					
300				0					
Inflation will be applied to investment costs									
Year	US Dollar (% distribution)		Local Currency (% distribution)						
1:2016	25.000								
2:2017	50.000								
3:2018	25.000								

12. Now go to “Sources of financing”. Click on “US Dollar” in the drop-down box.
13. Fill in this page following the **financial information**.



Plant data	Plant production	O & M costs	Fuel cost	General expenses data	Investments	Sources of financing	Depreciation	Decommissioning
<b>Sources of financing</b>								
<input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px 10px; margin-bottom: 5px;" type="button" value="US Dollar"/> <input checked="" type="checkbox"/> Export Credit 1 <input type="checkbox"/> Export Credit 2 <input type="checkbox"/> Project Loans <b>Terms of financing</b>								
Year	Constant Prices (Million)	Export Credit 1	Export Credit 2	Project Loans				
1:2016	75.000	60.000						
2:2017	150.000	60.000						
3:2018	75.000	60.000						

**14.** Now we move on to “Terms of financing”. Click on this box, underneath “Export Credit 1”.

<input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px 10px; margin-bottom: 5px;" type="button" value="US Dollar"/>	<input checked="" type="checkbox"/> Export Credit 1 <input type="checkbox"/> Export Credit 2 <input type="checkbox"/> Project Loans <b>Terms of financing</b>
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**15.** Fill in the values by following the **financial information** at the top of this document.

<b>Terms of financing</b>			
Total amount in constant prices (Million)	180	IDC financing option	<input type="radio"/> Yes <input checked="" type="radio"/> No
Term (years)	12	Loan for IDC (% of IDC)	<input type="text"/>
Réparation option	<input type="radio"/> Uniform (P) <input checked="" type="radio"/> Uniform (P+I)	Term (years)	<input type="text"/>
Interest Option	<input type="radio"/> Constant <input type="radio"/> Floating	Interest rate (%)	<input type="text"/>
Interest rate (%)	5.5	Repayment option	<input type="radio"/> Uniform (P) <input type="radio"/> Uniform (P+I)
Spread above the inflation (%)	<input type="text"/>		
Fees (exposure fee, commitment fee, etc.)			
<input type="checkbox"/> One time initial (Millions)	<input type="text"/>		
<input type="checkbox"/> Paid upfront (%)	<input type="text"/>		
<input type="checkbox"/> Paid as drawdown (%)	<input type="text"/>		

**16.** Now we move to Depreciation Data & Decommissioning. Click on “Depreciation”.

**17.** Fill in the depreciation information from the **background information**.



Depreciation

Linear  
20 Number of years

Sum of the years digits  
Number of years

Declining balance  
Depreciation rate (%)

Declining switching to linear  
Number of years

Depreciation rate (%)

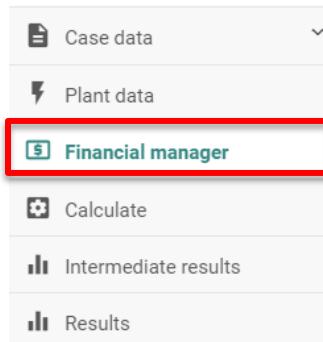
**18.** We will leave “Decommissioning” empty as we do not have information on this.

**Well done!** You have now inputted all Plant Data.

We will now have to move on to the Financial Data i.e., “Financial manager” tab.

**Try it:**

1. Click on the “Financial manager” tab on the left menu pane. The first page will be on “Equity”.



2. From the **financial information** section, we know that there is no limit to dividends being paid out. Therefore, we will put in a large number i.e., **999** for “Maximum Dividend”. This large number will ensure that whatever profit is made will be released in the form of dividends.
3. From the **financial information** section, add in the values for equity.



## Equity



### Local Currency (Million)

Maximum dividend (%)

999

Initial equity

80

A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.

Year	Equity	Equity returned
2015		
2016		
2017	100.000	
2018		
2019	130.000	
2020		
2021		

4. Now go to the next page, "New commercial loans".
5. Follow the **financial information** and input the values for new commercial loans.

Equity New commercial loans New bonds Other financial data

New commercial loans

US Dollar (Million)

Interest spread above Inflation (%)

Term (Years)

Local Currency (Million)

Interest spread above Inflation (%)

Term (Years)

A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.

Year	US Dollar - Drawdown (Million)	Local Currency - Drawdown (Million)
2015		
2016		
2017		
2018	60.000	
2019	10.000	
2020		
2021		

6. Now go to "New Bonds".
7. Follow the **financial information** and input the values for bonds.



Equity    New commercial loans    **New bonds**    Other financial data

New bonds

US Dollar (Million)  
Expected Rate (%)  
Bonds Term (Year's)

Local Currency (Million)  
Expected Rate (%)  
Bonds Term (Year's)

A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.

Year	US Dollar - Issued (Million)	Local Currency - Issued (Million)
2015		
2016		
2017		
2018	10.000	
2019		

8. Now go to the next page, "Other financial data".
9. Fill in the first box, "Other financial data", from the **financial information** section.
10. As we are not given information on "Short Loans", we will input this as 0.

Other financial data

Spread for short term deposits (%) above local inflation  
-1

Spread for stand-by facility (%) above local inflation  
4

Short loans outstanding initial (Million Local Currency)  
0

11. Fill in the second box, "Shareholders' return data".
12. Input the values as shown in the **financial information** section.

Shareholders' return data

Disposal year  
240

Discount rate  
6

13. Now go to "Terms of project finance loan".
14. Input the values as shown in the **financial information** section.

Terms of project finance loan

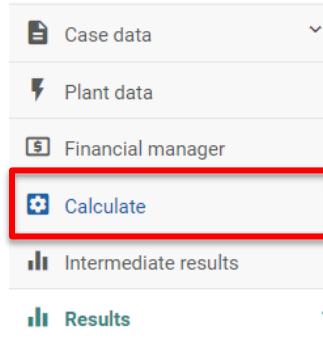
Discount rate	6
Average loan term (years)	12
Security ratio for loan period	1.4
Expected life of project (years)	30
Security ratio for project life	1.6
First year of cash to debt service	2020

**Well done!** You have now added in all the financial data on FINPLAN.

Now we need to run our model and read our results.

**Try it:**

1. Click on "Calculate".



2. Once results are generated, click on "Cash inflows and outflows in local currency" from Results.

## 1. Results

- 1.1. Operating account in local currency
- 1.2. **Cash inflows and outflows in local currency**
- 1.3. Balance sheet in local currency
- 1.4. Shareholders' return in local currency
- 1.5. Financial ratios
- 1.6. Project finance analysis in local currency



3. Ensure that the power plant is under construction at the correct time. To double-check, make sure that there are values for "Investment" from 2017 to 2019. Also double-check that "Sales" only appear after the year 2019.

Cash inflows and outflows in local currency								
	Million	2015	2016	2017	2018	2019	2020	2021
Cash available in short term deposits (at end of previ...		80.000	80.000	80.000	68.301	76.196	53.322	51.084
Inflows								
Revenues		0.000	0.000	0.000	0.000	0.000	612.615	643.246
Fixed revenues		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sales		0.000	0.000	0.000	0.000	0.000	612.615	643.246
Others		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Interest earned		3.200	3.200	3.200	2.732	3.048	2.133	2.043
New equity		0.000	0.000	100.000	0.000	130.000	0.000	0.000
Bonds issue		0.000	0.000	0.000	35.996	0.000	0.000	0.000
Loans drawdowns		0.000	0.000	155.750	539.935	205.895	0.000	0.000
Stand-by facility		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total inflows		3.200	3.200	258.950	578.662	338.943	614.748	645.289
Flow from short term deposits		0.000	0.000	11.699	0.000	22.874	2.239	0.039
Total cash available		3.200	3.200	270.650	578.662	361.817	616.987	645.328
Outflows								
Investment		0.000	0.000	267.450	561.858	295.088	0.000	0.000

4. Check the Cash Available in Short Term Deposits. As a short-term deposit has a low interest rate, it should be emptied as quickly as possible. However, our results show that this is not the case: cash is available throughout.

### Cash inflows and outflows in local currency

	Million	2015	2016	2017	2018	2019	2020	2021
Cash available in short term deposits (at end of previous year)		80.000	80.000	80.000	68.301	76.196	53.322	51.084
Inflows								
Revenues		0.000	0.000	0.000	0.000	0.000	612.615	643.246
Fixed revenues		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sales		0.000	0.000	0.000	0.000	0.000	612.615	643.246
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

- Check the Stand-by facility. It should be rarely used. This is the case.
- Check flows from the Short Term Deposits. As mentioned, it should be emptied as soon as possible. However, we can see that there are substantial Flows from the Short Term Deposits during several years.

	Million	2015	2016	2017	2018	2019	2020	2021
Cash available in short term deposits (at end of previous year)		80.000	80.000	80.000	68.301	76.196	53.322	51.084
Inflows								
Revenues		0.000	0.000	0.000	0.000	0.000	612.615	643.246
Fixed revenues		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sales		0.000	0.000	0.000	0.000	0.000	612.615	643.246
Others		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Interest earned		3.200	3.200	3.200	2.732	3.048	2.133	2.043
New equity		0.000	0.000	100.000	0.000	130.000	0.000	0.000
Bonds issue		0.000	0.000	0.000	35.996	0.000	0.000	0.000
Loans drawdowns		0.000	0.000	155.750	539.935	205.895	0.000	0.000
Stand-by facility		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total inflows		3.200	3.200	258.950	578.662	338.943	614.748	645.289
Flow from short term deposits		0.000	0.000	11.699	0.000	22.874	2.239	0.039
Total cash available		3.200	3.200	270.650	578.662	361.817	616.987	645.328

- From the results above, we can conclude that this case study is **not balanced**. We have too much cash available. We added new equity and new bonds in this case study, which could be an explanation as to why we have too much money.

## Activity 2

### Adjust a case study to be financially balanced

We need to adjust the input data for the CCGT case study so that it is financially balanced.



## Try it:

1. Create a [copy](#) of your “CCGT Demonstration” case study and name it “CCGT Demonstration - Balanced”. You can rename it in General data > General information. We will use this new file to make some changes.



2. **2017:** Looking at our results, cash is available in the Short-Term Deposit in 2017, yet further equity is injected, which is not required. The equity should therefore be reduced to [30 million LC](#) in [2017](#) and results should be recalculated.

Equity

Local Currency (Million)  
Maximum dividend (%)  
999

Initial equity  
80

A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.

Year	Equity	Equity returned
2015		
2016		
2017	30.000	
2018		
2019	130.000	
2020		

3. **2018:** The high Debt Equity Ratio of ~0.9 in 2018 (check this under Results > Financial ratios) may not be acceptable to a lender. Furthermore, the capital markets may only be accessible once the plant has been in operation. Therefore, the 10 million USD bond issued in 2018 should be [removed](#). The commercial loan in 2018 should also be reduced to [30 million USD](#). The missing amount of equity for 2018 should be replaced with [140 million LC](#). This also improves the debt equity ratio during construction.



## New bonds

| | | | | |

### US Dollar (Million)

Expected Rate (%)

5

Bonds Term (Year's)

5

### Local Currency (Million)

Expected Rate (%)

Bonds Term (Year's)

A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.

Year	US Dollar - Issued (Million)	Local Currency - Issued (Million)
2015		
2016		
2017		
2018	0.000	
2019		

## New commercial loans

| | | | | |

### US Dollar (Million)

Interest spread above Inflation (%)

3

Term (Year's)

8

### Local Currency (Million)

Interest spread above Inflation (%)

Term (Year's)

A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.

Year	US Dollar - Drawdown (Million)	Local Currency - Drawdown (Million)
2015		
2016		
2017		
2018	30.000	
2019	10.000	
2020		

## Equity

| | | | | |

### Local Currency (Million)

Maximum dividend (%)

999

Initial equity

80

A value entered for one year will also be applicable for subsequent years, until a new value is entered for a future year.

Year	Equity	Equity returned
2015		
2016		
2017	30.000	
2018	140.000	
2019	130.000	
2020		

4. When looking at the results after recalculating, our short-term deposit is emptied as soon as possible, i.e., in the first year of construction. Also the stand-by facility is barely used compared to the overall investment costs and our financial ratios have improved. Our debt service coverage ratio is still quite low, which we accept for the time being. We assume that this is not our only project and that we have cash reserves available within our company. In reality, we would of course have to demonstrate to the financiers that this cash is available and reserved for this project. (Alternatively, we could increase the equity or debt further to have extra cash available, but this would just end up in the short-term deposit at a low interest rate. Further, we could of course increase the electricity price if this was a realistic option.)

Cash inflows and outflows in local currency							
	Million	2015	2016	2017	2018	2019	2020
Cash available in short term deposits (at end of previ...		80.000	80.000	80.000	0.000	0.000	0.000
Inflows							
Revenues		0.000	0.000	0.000	0.000	0.000	612.615
Fixed revenues		0.000	0.000	0.000	0.000	0.000	0.000
Sales		0.000	0.000	0.000	0.000	0.000	612.615
Others		0.000	0.000	0.000	0.000	0.000	0.000
Interest earned		3.200	3.200	3.200	0.000	0.000	0.378
New equity		0.000	0.000	30.000	140.000	130.000	0.000
Bonds issue		0.000	0.000	0.000	0.000	0.000	0.000
Loans drawdowns		0.000	0.000	155.750	431.948	205.895	0.000
Stand-by facility		0.000	0.000	1.699	0.000	5.580	0.000
Total inflows		3.200	3.200	190.650	571.948	341.475	612.615
Flow from short term deposits		0.000	0.000	80.000	0.000	0.000	0.000
Total cash available		3.200	3.200	270.650	571.948	341.475	612.615
Outflows							
Investment		0.000	0.000	267.450	561.858	295.088	0.000

**Well done!** You now know how to adjust data to achieve a balanced financial model.

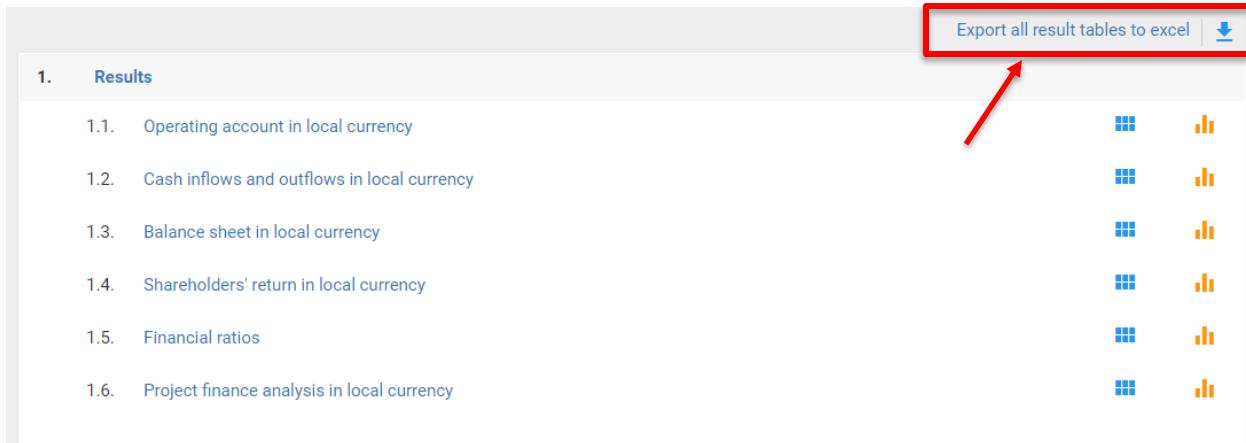
# Activity 3

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## Export FINPLAN results

It will be easier to compare results if you export them to Excel. It is also suggested that you then print out the Operating Account, the Cash Inflows and Outflows and the Balance Sheet.

You can do this by clicking on "Results" and the "Export all ..." button in the top right corner.



A screenshot of a web-based application interface for FINPLAN results. At the top, there is a navigation bar with a logo and some text. Below this, a main content area is titled "1. Results". Under this title, there is a list of six items, each with a blue link and a small blue square icon to its right. To the right of the list, there is a column of small orange square icons. At the top right of the content area, there is a button labeled "Export all result tables to excel" with a download icon. A red arrow points from the text above to this button.

Item	Link	Icon
1.1.	Operating account in local currency	blue square
1.2.	Cash inflows and outflows in local currency	blue square
1.3.	Balance sheet in local currency	blue square
1.4.	Shareholders' return in local currency	blue square
1.5.	Financial ratios	blue square
1.6.	Project finance analysis in local currency	blue square

Before going through the following questions, please take some time to compare the different statements (Operating account, Cash inflows and outflows, Balance sheet) and see how they are linked. Try to think of the purpose of each of them.

# Activity 4

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## Intermediate results

Sometimes you will look at your Financial Statements and see unexpected results. Often, the intermediate results allow you to check if the data you entered is used by FINPLAN as you expect it.

### Example:

Let's say the sales are zero in the "Results – Cash inflows and outflows" throughout the project period, even though you entered an electricity price. In the intermediate results, you



can check under "Sales" what quantity of electricity is being multiplied with which electricity price, and you can maybe find out that the quantity was zero (e.g., because of forgetting to press the "save" button when entering data).

Please take some time to go through the Intermediate Results and familiarize yourself with what you find there. The following questions can be a starting point.

## Activity 5

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Now take your time to go through the following statements. If you are unsure about their definitions and terms used, check the section in the document 'Introduction to FINPLAN' explaining the results. For more detailed explanations, check the definitions on pages like [investopedia.com](https://www.investopedia.com).

- Cash Flow Statement
- Operating Account
- Balance Sheet
- Financial Ratios
- Shareholder's Return

The questions in the online quiz will relate to these statements. It is thus suggested that you keep FINPLAN open on your computer while answering the quizzes.

Should you want to compare your results with the correct solution, simply restore the FINPLAN case using the link provided at the beginning of this document. Refer to the previous hands-on exercise to see how this is done.

**Note:** There is also a FINPLAN discussion forum for further support. Please sign up to the group and ask or answer any FINPLAN-related questions [here](#).