BalanceSheet

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## Capital Cost

Inner Site Battery Limits

## PostUnit TempK PresPa HJhr Volm3hr  
## SnG001 Gasifier 2750 4e+06 90186476.5072202 4736.710  
## SnG002 F001 2771.77512087104 4300000 90186476.5072202 4406.480  
## SnG003 HEX001 1523 4299992.0031312 42288847.7399716 2439.997  
## CW001 Storage 288 101325 -764.54716852038 15.208  
## CW002 P001 288 148162.086564302 -764.54716852038 15.208  
## HW001 HEX001 698 147813.897872099 37224.649498204 33086.792  
## HW002 Comp001 698 3747813.8978721 37224.649498204 1242.767  
## SnG004 F002 1547.07710446026 4599992.0031312 42288847.7399716 2280.965  
## SnG005 HEX002 700 4599987.0252012 91071276.7338681 4441.361  
## CW003 Storage 288 101325 -764.54716852038 9.080  
## CW004 P002 288 136913.012174861 -764.54716852038 9.080  
## HW003 HEX002 698 136788.888257652 37224.649498204 21347.131  
## HW004 Comp002 698 3736788.88825765 37224.649498204 744.312  
## SnG006 F003 731.649877300359 4899987.0252012 91071276.7338681 977.745  
## Sg001 Slag 2750 101325 248692033.3095 0.025  
## CW005 Storage 288 101325 -764.54716852038 3.008  
## CW006 P003 288 131365.094770318 -764.54716852038 3.008  
## SW001 Quench001 305.627834824493 101325 27638984.6103575 3.032  
## SnG007 Cy001 731.649877300359 4898682.5689975 15043482.9923689 1023.181  
## A001 Char 731.649877300359 101325 30125678.6322474 0.017  
## CW007 Storage 288 101325 -764.54716852038 1.003  
## CW008 P004 288 130757.388307813 -764.54716852038 1.003  
## SW002 Quench002 292.327534550495 101325 12036584.2111802 1.019  
## Solidkghr SnGkghr Waterkghr HazGaskghr Totalkghr  
## SnG001 28.397 10029.9412441723 4765.61060261647 4453.32777748488 19277.276  
## SnG002 28.397 10029.9412441723 4765.61060261647 4453.32777748488 19277.276  
## SnG003 28.397 10029.9412441723 4765.61060261647 4453.32777748488 19277.276  
## CW001 0.000 0 15169.7002204699 0 15169.700  
## CW002 0.000 0 15169.7002204699 0 15169.700  
## HW001 0.000 0 15169.7002204699 0 15169.700  
## HW002 0.000 0 15169.7002204699 0 15169.700  
## SnG004 28.397 10029.9412441723 4765.61060261647 4453.32777748488 19277.276  
## SnG005 28.397 10029.9412441723 4765.61060261647 4453.32777748488 19277.276  
## CW003 0.000 0 9057.27185898314 0 9057.272  
## CW004 0.000 0 9057.27185898314 0 9057.272  
## HW003 0.000 0 9057.27185898314 0 9057.272  
## HW004 0.000 0 9057.27185898314 0 9057.272  
## SnG006 28.397 10029.9412441723 4765.61060261647 4453.32777748488 19277.276  
## Sg001 62.368 0 0 0 62.368  
## CW005 0.000 0 3000 0 3000.000  
## CW006 0.000 0 3000 0 3000.000  
## SW001 62.368 0 3000 0 3062.368  
## SnG007 0.000 10029.9412441723 4765.61060261647 4453.32777748488 19248.880  
## A001 28.397 0 0 0 28.397  
## CW007 0.000 0 1000 0 1000.000  
## CW008 0.000 0 1000 0 1000.000  
## SW002 28.397 0 1000 0 1028.397

Total Capital Cost

CapCost\_df

## Cost Ratio Value  
## 1 ISBL 1.00 105968666  
## 2 OSBL 0.30 31790600  
## 3 Eng 0.30 31790600  
## 4 Cont 0.10 10596867  
## 5 Working 0.15 15895300  
## 6 Total 1.85 196042032

Fixed Cost of Production

FCOP\_df

## Type Value  
## 1 Labour Costs 7306460  
## 2 Maintenance 9802102  
## 3 Overhead Exp 5881261  
## 4 Tax and Ins 5881261  
## 5 Transport 1960420  
## 6 Total 30831504

Cost of Utilities

Utilities\_df

## Type Unit\_Cost Quant\_Req Cost\_Pnd Unit\_yr Rev\_yr  
## 1 Electricity 0.27000 651.0074 175.771991 5155978 1392114.17  
## 2 Water 0.00026 28226.9721 7.339013 223557619 58124.98

Cost of Raw Materials

RawMat\_df

## Type Unit\_Cost Quant\_Req Cost\_Pnd Unit\_yr Rev\_yr  
## 1 Oxygen 0.07 9000.0 630.000 71280000 4989600  
## 2 NaOH 3.07 250.3 768.421 1982376 6085894

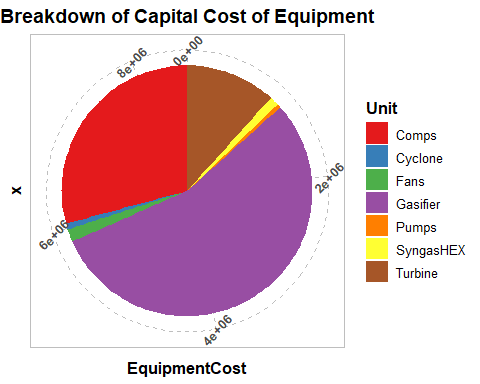
Product Revenues

Prods\_df

## Type Unit\_Cost Quant\_Req Cost\_Pnd Unit\_yr Rev\_yr  
## 1 Hydrogen 10.00 375.00948 3750.094831 2970075.1 29700751.06  
## 2 Carbon Dioxide 0.05 9172.58587 458.629294 72646880.1 3632344.00  
## 3 Ash 0.13 28.39655 3.691551 224900.7 29237.08  
## 4 Slag 0.13 62.36791 8.107828 493953.8 64214.00  
## 5 Plastic Waste 0.10 3052.47350 305.247350 24175590.1 2417559.01  
## 6 Sorted Waste 0.05 22119.37319 1105.968659 175185435.7 8759271.78

## Including Plots

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.