Production Control

Set OC for all Production: NO

RPM ?	Resource	Base RPM	RPM Needed	RPM Total	RPM/ Building	Building	Count	Power Needed	OC	Power Shards
0.0	AIL	8	2.7	2.70 /RPM	5.00 /RPM	Assembler	0.54	8.1 MW	100%	0
0.0	AluminaSheet	15	0.0	0.00 /RPM	15.00 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	Aluminguot	30	0.0	0.00 /RPM	30.00 /RPM	Foundry	0.00	0.0 MW	100%	0
0.0	Battery	5.6	0.0	0.00 /RPM	5.60 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	Beacon	7.5	0.0	0.01 /RPM	7.50 /RPM	Manufacturer	0.11	5.9 MW	100%	0
0.0	BioFuel	30	0.0	0.00 /RPM	30.00 /RPM	Constructor	0.00	0.0 MW	100%	0
0.0	BlkPowder	7.5	0.0	0.00 /RPM	7.50 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	Cable	15	7.3	7.29 /RPM	15.00 /RPM	Constructor	0.49	1.9 MW	100%	0
0.0	Cartridge	12	0.0	0.00 /RPM	12.00 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	CatIngot	15	12.1	12.15 /RPM	15.00 /RPM	Smelter	0.81	3.2 MW	100%	0
0.0	CircBoard	5	2.7	2.70 /RPM	5.00 /RPM	Assembler	0.54	8.1 MW	100%	0
0.0	ColorCart	75	0.0	0.00 /RPM	75.00 /RPM	Constructor	0.00	0.0 MW	100%	0
0.0	ComCoal	30	0.0	0.00 /RPM	30.00 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	Computer	1.5	0.0	0.00 /RPM	1.90 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	Concrete	15	6.1	6.07 /RPM	15.00 /RPM	Constructor	0.40	1.6 MW	100%	0
0.0	CopIngot	35	32.9	32.87 /RPM	30.00 /RPM	Smelter	1.10	4.4 MW	100%	0
0.0	Crystal	15	0.0	0.00 /RPM	15.00 /RPM	Constructor	0.00	0.0 MW	100%	0
0.0	EMCRod	2	1.3	1.35 /RPM	2.00 /RPM	Assembler	0.67	10.1 MW	100%	0
0.0	EncBeam	4	0.0	0.00 /RPM	4.00 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	Fabric	15	0.0	0.00 /RPM	15.00 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	Filter	7.5	0.0	0.00 /RPM	7.50 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	Fuel	37.5	0.0	0.00 /RPM	37.50 /RPM	Oil Refinery	0.00	0.0 MW	100%	0
0.0	HazMatFilter	3.75	0.0	0.00 /RPM	3.75 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	HeatSink	5	0.0	0.00 /RPM	5.00 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	HBC	2.5	0.0	0.00 /RPM	2.50 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	HvyFrame	2	0.0	0.00 /RPM	2.00 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	IronIngot	30	25.2	25.24 /RPM	30.00 /RPM	Smelter	0.84	3.4 MW	100%	0
0.0	IronPlate	15	8.9	8.91 /RPM	15.00 /RPM	Constructor	0.59	2.4 MW	100%	0
0.0	IronRod	15	7.4	7.42 /RPM	15.00 /RPM	Constructor	0.49	2.0 MW	100%	0
0.0	ModFrame	4	0.0	0.00 /RPM	4.00 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	Motor	5	0.0	0.00 /RPM	5.00 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	Nobelisk	3	0.0	0.00 /RPM	3.00 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	NukeFuelRd_O	0.6	0.4	0.40 /RPM	1.50 /RPM	Manufacturer	0.27	64.3 MW	250%	3
0.0	Oscillator	1.875	0.4	0.40 /RPM	1.88 /RPM	Manufacturer	0.22	11.9 MW	100%	0
0.0	Plastic	22.5	16.2	16.20 /RPM	22.50 /RPM	Oil Refinery	0.72	36.0 MW	100%	0
0.0	QuickWire	60	48.6	48.59 /RPM	60.00 /RPM	Constructor	0.81	3.2 MW	100%	0
0.0	RCUnit	2.5	0.0	0.00 /RPM	2.50 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	RefPlate	5	1.6	1.62 /RPM	5.00 /RPM	Assembler	0.32	4.9 MW	100%	0
0.0	Rotor	6	0.0	0.00 /RPM	6.00 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	Rubber	30	0.0	0.00 /RPM	30.00 /RPM	Oil Refinery	0.00	0.0 MW	100%	0
0.0	Screw	90	38.9	38.88 /RPM	90.00 /RPM	Constructor	0.43	1.7 MW	100%	0
0.0	Silica	45	0.0	0.00 /RPM	45.00 /RPM	Constructor	0.00	0.0 MW	100%	0
0.0	SpikedRebar	15	0.0	0.00 /RPM	15.00 /RPM	Constructor	0.00	0.0 MW	100%	0
0.0	Stator	4	4.0	4.05 /RPM	6.00 /RPM	Assembler	0.67	10.1 MW	100%	0
0.0	SteelBeam	10	0.0	0.00 /RPM	10.00 /RPM	Constructor	0.00	0.0 MW	100%	0
0.0	SteelIngot	30	12.1	12.15 /RPM	30.00 /RPM	Foundry	0.40	6.5 MW	100%	0
0.0	SteelPipe	15	12.1	12.15 /RPM	15.00 /RPM	Constructor	0.81	3.2 MW	100%	0
0.0	SuperComputer	1.875	0.0	0.00 /RPM	1.88 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	TurboFuel	18.75	0.0	0.00 /RPM	18.75 /RPM	Assembler	0.00	0.0 MW	100%	0
0.0	TurboMotor	1.5	0.0	0.00 /RPM	1.50 /RPM	Manufacturer	0.00	0.0 MW	100%	0
0.0	Wire	45	99.6	99.62 /RPM	45.00 /RPM	Constructor	2.21	8.9 MW	100%	0
0.0	UraniumCell	10	6.7	6.75 /RPM	10.00 /RPM	Assembler	0.67	10.1 MW	100%	0
										3

Raw Resource Control

Set OC for All Nodes: NO

Resource	RPM Needed	Node	RPM Total	Building		Power Needed	OC	Power Shards
Limestone	18.22 /RPM		0.00 /RPM	RPM Still Needed:	18.2	0.0 MW		
Total Max RPM		Pure	0.00 /RPM	Miner MK 3	0	0.0 MW	100%	0
Still On Map	45540.0	Normal	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
		Impure	0.00 /RPM	Miner MK 3	0	0.0 MW	100%	0
Oil	21.54 /RPM		0.00 /RPM	RPM Still Needed:	21.5	0.0 MW		
Total Max RPM		Pure	0.00 /RPM	Oil Pump	0	0.0 MW	100%	0
Still On Map	9750.0	Normal	0.00 /RPM	Oil Pump	0	0.0 MW	250%	0
		Impure	0.00 /RPM	Oil Pump	0	0.0 MW	100%	0
CatOre	36.45 /RPM		0.00 /RPM	RPM Still Needed:	36.4	0.0 MW		
Total Max RPM		Pure	0.00 /RPM	Miner MK 3	0	0.0 MW	100%	0
Still On Map	10680.0	Normal	0.00 /RPM	Miner MK 3	0	0.0 MW	100%	0
		Impure						
Quartz	4.05 /RPM		0.00 /RPM	RPM Still Needed:	4.0	0.0 MW		
Total Max RPM		Pure	0.00 /RPM	Miner MK 3	0	0.0 MW	165%	0
Still On Map	11100.0	Normal	0.00 /RPM	Miner MK 3	0	0.0 MW	100%	0
		Impure						
CopOre	32.87 /RPM		0.00 /RPM	RPM Still Needed:	32.9	0.0 MW		
Total Max RPM		Pure	0.00 /RPM	Miner MK 3	0	0.0 MW	100%	0
Still On Map	21720.0	Normal	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
		Impure	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
IronOre	43.46 /RPM		0.00 /RPM	RPM Still Needed:	43.5	0.0 MW		
Total Max RPM		Pure	0.00 /RPM	Miner MK 3	0	0.0 MW	100%	0
Still On Map	64860.0	Normal	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
		Impure	0.00 /RPM	Miner MK 1	0	0.0 MW	100%	0
Coal	18.22 /RPM		0.00 /RPM	RPM Still Needed:	18.2	0.0 MW		
Total Max RPM		Pure	0.00 /RPM	Miner MK 3	0	0.0 MW	200%	0
Still On Map	20100.0	Normal	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
		Impure	0.00 /RPM	Miner MK 1	0	0.0 MW	100%	0
Sulfur	0.00 /RPM		0.00 /RPM	RPM Still Needed:	0.0	0.0 MW		
Total Max RPM		Pure	0.00 /RPM	Miner MK 2	0	0.0 MW	101%	0
Still On Map	6480.0	Normal	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
		Impure	0.00 /RPM	Miner MK 1	0	0.0 MW	100%	0
Bauxite	0.00 /RPM		0.00 /RPM	? ? RPM Needed	0.0 RPM	0.0 MW		
Total Max RPM		Pure	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
Still On Map	4980.0	Normal	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
		Impure						
Uranium	38.37 /RPM		0.00 /RPM	RPM Still Needed:	38.3	0.0 MW		
Total Max RPM		Pure						
Still On Map	1200.0	Normal	0.00 /RPM	Miner MK 3	0	0.0 MW	200%	0
		Impure						
SAM	0.00 /RPM		0.00 /RPM	RPM Still Needed:	0.0	0.0 MW		
Total Max RPM		Pure						
Still On Map	5400.0	Normal	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
		Impure	0.00 /RPM	Miner MK 2	0	0.0 MW	100%	0
							Total	0

Power Control

Calculate Method: Manual

Configure Generators Below to Meet Power Needs			
Total Generators	Total Power Cap	MW Still Needed	Shards Needed
15	7686.0 MW	-7493.10 MW	3

Nuke Plant	NukeFuelRd	Bio Burner	Biomass
How Many?	1	How Many?	1
Clock Speed	250%	Clock Speed	100%
Max RPM Each	0.4/min	Max RPM Each	10.0/min
Total Max RPM	0.4/min	Total Max RPM	10.0/min
Total MW Cap	5075.0 MW	Total MW Cap	20.0 MW
Shards Needed	3	Shards Needed	0

Coal Gen	Coal	Nuke Plant	NukeFuelRd
How Many?	0	How Many?	0
Clock Speed	100%	Clock Speed	100%
Max RPM Each	11.1/min	Max RPM Each	0.2/min
Total Max RPM	0.0/min	Total Max RPM	0.0/min
Total MW Cap	0.0 MW	Total MW Cap	0.0 MW
Shards Needed	0	Shards Needed	0

Coal Gen	Coal	Geo-Thermal	17 Gen Max
How Many?	0	How Many?	13
Clock Speed	100%	Clock Speed	100%
Max RPM Each	11.1/min	Max RPM Each	0.0/min
Total Max RPM	0.0/min	Total Max RPM	0.0/min
Total MW Cap	0.0 MW	Total MW Cap	2600.0 MW
Shards Needed	0	Shards Needed	0

Google Sheets needs to be poked and prodded a bit...
Because fuel production adds to total power needs, it may be necessary to 'tell' Sheets to re-do the math a couple of times after making changes to generators.
To do so, click this box a bit: ☑

Building Power and Count		
Building Type	Total	Grand Total
	13	201.90 MW
Manufacturer	0.59	82.15 MW
Assembler	2.75	41.31 MW
Constructor	6.25	24.98 MW
Smelter	2.75	10.99 MW
Foundry	0.40	6.48 MW
Oil Refinery	0.72	36.00 MW
Oil Pump	0.00	0.00 MW
Miner MK 3	0.00	0.00 MW
Miner MK 2	0.00	0.00 MW
Miner MK 1	0.00	0.00 MW

NukeFuelRd	0.40	NukeFuelRd_O	
Biomass	10.00	Biomass	
Coal	0.00	Coal	
NukeFuelRd	0.00	NukeFuelRd_O	
Coal	0.00	Coal	
17 Gen Max	0.00	17 Gen Max	

Slugs	&	Shards
71	Purple	355
143	Yellow	429
343	Green	343
557	Total	1127
Total Shards Needed		6
Owned		0
Still to Craft		6

Things you can play with and how it all works

Production

- Desired RPM for all items ("? RPM", First Column)
- Alternate recipes for items (drop down list, where applicable)
- Building clock speed for each item individually ("OC" Column)
- Clock speed for all production buildings, together (Top)

Resources

- Miner type and count for each resource per node purity (drop down list, where applicable)
these values are limited by the actual nodes in the game
- Clock speed for all miners/pumps, together (Top)
- Clock speed for each node type individually ("OC" Column)

Power Generation:

- Auto: Select a generator, fuel type, and clock speed to see how many you'll need to meet max MW capacity
- Manual: Customize any number of different generators & fuels types to meet your power needs your way

Sheet by Redditor /u/Siccice

Made possible by the hardworking people at The Official Satisfactory Wiki

Special thanks to https://satisfactory.greemy.dev/map for resource node and slug information

0.0	AIL										AIL	0.00
	0.0	CircBoard									CircBoard	0.00
		0.0	Wire								Wire	0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
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			#NUM!	#NUM!								
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		0.0	Plastic								Plastic	0.00
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				#REF!	#REF!							
	0.0	QuickWire									QuickWire	0.00
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			0.0	CatOre							CatOre	0.00
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0.0	AlcladSheet										AlcladSheet	0.00
	0.0	AlumIngot									AlumIngot	0.00
		0.0	Bauxite								Bauxite	0.00
		0.0	Silica								Silica	0.00
			0.0	Quartz							Quartz	0.00
			0.0									0.00
	0.0	CopIngot									CopIngot	0.00
		0.0	CopOre								CopOre	0.00
0.0	AlumIngot										AlumIngot	0.00
	0.0	Bauxite									Bauxite	0.00
	0.0	Silica									Silica	0.00
		0.0	Quartz								Quartz	0.00
		0.0										0.00
0.0	HeatSink										HeatSink	0.00
	0.0	AlcladSheet									AlcladSheet	0.00
		0.0	AlumIngot								AlumIngot	0.00
			0.0	Bauxite							Bauxite	0.00
			0.0	Silica							Silica	0.00
				0.0	Quartz						Quartz	0.00
				0.0								0.00
		0.0	CopIngot								CopIngot	0.00
			0.0	CopOre							CopOre	0.00
	0.0	Rubber									Rubber	0.00
		0.0	Oil								Oil	0.00
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			#REF!	#REF!								
0.0	EMCRod										EMCRod	0.00
	0.0	Stator									Stator	0.00
		0.0	SteelPipe								SteelPipe	0.00
			0.0	SteelIngot							SteelIngot	0.00
				0.0	Coal						Coal	0.00
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					#REF!	#REF!						
				0.0	IronOre						IronOre	0.00
		0.0	Wire								Wire	0.00
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				0.0	CopOre						CopOre	0.00
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			#NUM!	#NUM!								
				#NUM!	#NUM!							
	0.0	AIL									AIL	0.00
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					0.0	CopOre					CopOre	0.00
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					#REF!	#REF!						
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				0.0	CatOre						CatOre	0.00
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					#REF!	#REF!						
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				#NUM!	#NUM!							
0.0	HazMatFilter										HazMatFilter	0.00
	0.0	Filter									Filter	0.00
		0.0	Coal								Coal	0.00
		0.0	Rubber								Rubber	0.00
			0.0	Oil							Oil	0.00
		0.0	Fabric								Fabric	0.00
			0.0	Mycelia							Mycelia	0.00
	0.0	QuickWire									QuickWire	0.00
		0.0	CatIngot								CatIngot	0.00
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	0.0	Rubber									Rubber	0.00
		0.0	Oil								Oil	0.00
0.0	UraniumCell										UraniumCell	0.00
	0.0	Uranium									Uranium	0.00
	0.0	Concrete									Concrete	0.00
		0.0	Limestone								Limestone	0.00
		0.0									0	
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			#REF!	#REF!								
	0.0										0	
		#REF!	#REF!									
		#REF!	#REF!									
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		#REF!	#REF!									
			#REF!	#REF!								
		#REF!	#REF!									
			#REF!	#REF!								
0.0	NukeFuelRd_O										NukeFuelRd_O	0.00
	0.0	UraniumCell									UraniumCell	0.00
		0.0	Uranium								Uranium	0.00
		0.0	Concrete								Concrete	0.00
			0.0	Limestone							Limestone	0.00
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				#REF!	#REF!							
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			#REF!	#REF!								
				#REF!	#REF!							
			#REF!	#REF!								
				#REF!	#REF!							
	0.0	EMCRod									EMCRod	0.00
		0.0	Stator								Stator	0.00
			0.0	SteelPipe							SteelPipe	0.00
				0.0	SteelIngot						SteelIngot	0.00
					0.0	Coal					Coal	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					0.0	IronOre					IronOre	0.00
			0.0	Wire							Wire	0.00
				0.0	CopIngot						CopIngot	0.00
					0.0	CopOre					CopOre	0.00
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
		0.0	AIL								AIL	0.00
			0.0	CircBoard							CircBoard	0.00

				0.0	Wire						Wire	0.00
					0.0	CopIngot					CopIngot	0.00
						0.0	CopOre				CopOre	0.00
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					#NUM!	#NUM!						
						#NUM!	#NUM!					
				0.0	Plastic						Plastic	0.00
					0.0	Oil					Oil	0.00
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						#REF!	#REF!					
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					0.0	CatOre					CatOre	0.00
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						#REF!	#REF!					
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				#NUM!	#NUM!							
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
0.0	Oscillator										Oscillator	0.00
	0.0	Quartz									Quartz	0.00
		#REF!	#REF!									
			#REF!	#REF!								
				#REF!	#REF!							
				#REF!	#REF!							
			#REF!	#REF!								
	0.0	Cable									Cable	0.00
		0.0	Wire								Wire	0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
				#NUM!	#NUM!							
			#NUM!	#NUM!								
				#NUM!	#NUM!							
		0.0									0	
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	0.0	RePlate									RePlate	0.00
		0.0	IronPlate								IronPlate	0.00
			0.0	IronIngot							IronIngot	0.00
				0.0	IronOre						IronOre	0.00
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				#NUM!	#NUM!							
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
		0.0	Screw								Screw	0.00
			0.0	IronRod							IronRod	0.00
				0.0	IronIngot						IronIngot	0.00
					0.0	IronOre					IronOre	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					0.0						0	
				#NUM!	#NUM!							
				0.0							0	
				#REF!	#REF!							
0.0	Beacon										Beacon	0.00
	0.0	IronPlate									IronPlate	0.00
		0.0	IronIngot								IronIngot	0.00
			0.0	IronOre							IronOre	0.00
				#REF!	#REF!							
				#REF!	#REF!							
			0.0								0	
	0.0	IronRod									IronRod	0.00
		0.0	IronIngot								IronIngot	0.00

				0.0	IronOre						IronOre	0.00
					#REF!	#REF!						
					#REF!	#REF!						
				0.0							0	
		0.0	Wire								Wire	0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
				#NUM!	#NUM!							
			#NUM!	#NUM!								
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
						#NUM!	#NUM!					
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								#NUM!	#NUM!			
							#NUM!	#NUM!				
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
		0.0	Cable								Cable	0.00
			0.0	Wire							Wire	0.00
				0.0	CopIngot						CopIngot	0.00
					0.0	CopOre					CopOre	0.00
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
			0.0								0	
				#REF!	#REF!							
0.0	TurboMotor										TurboMotor	0.00
	0.0	Motor									Motor	0.00
		0.0	Rotor								Rotor	0.00
			0.0	IronRod							IronRod	0.00
				0.0	IronIngot						IronIngot	0.00
					0.0	IronOre					IronOre	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					0.0						0	
			0.0	Screw							Screw	0.00
				0.0	IronRod						IronRod	0.00
					0.0	IronIngot					IronIngot	0.00
						0.0	IronOre				IronOre	0.00
							#REF!	#REF!				
							#REF!	#REF!				
						0.0					0	
					#NUM!	#NUM!						
		0.0	Stator								Stator	0.00
			0.0	SteelPipe							SteelPipe	0.00
				0.0	SteelIngot						SteelIngot	0.00
					0.0	Coal					Coal	0.00
						#REF!	#REF!					
						#REF!	#REF!					

					0.0	IronOre					IronOre	0.00
			0.0	Wire							Wire	0.00
				0.0	CopIngot						CopIngot	0.00
					0.0	CopOre					CopOre	0.00
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
		0.0									0	
			#REF!	#REF!								
			#REF!	#REF!								
				#REF!	#REF!							
					#REF!	#REF!						
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								#REF!	#REF!			
							#REF!	#REF!				
						#REF!	#REF!					
					#REF!	#REF!						
0.0	RCUnit										RCUnit	0.00
	0.0	HeatSink									HeatSink	0
		0.0	AlcladSheet								AlcladSheet	0
			0.0	AlumIngot							AlumIngot	0
				0.0	Bauxite						Bauxite	0
				0.0	Silica						Silica	0
					0.0	Quartz					Quartz	0
					0.0							0
				0.0	CopIngot						CopIngot	0
				0.0	CopOre						CopOre	0
			0.0	Rubber							Rubber	0
				0.0	Oil						Oil	0
				#REF!	#REF!							
				#REF!	#REF!							
		0.0	Rubber								Rubber	0
			0.0	Oil							Oil	0
		0.0	Computer								Computer	0
			0.0	CircBoard							CircBoard	0
				0.0	Wire						Wire	0
				0.0	CopIngot						CopIngot	0
					0.0	CopOre					CopOre	0
						#REF!	#REF!					
						#REF!	#REF!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
				0.0	Plastic						Plastic	0
				0.0	Oil						Oil	0

						#REF!	#REF!					
							#REF!	#REF!				
							#REF!	#REF!				
					0.0						0	
						#REF!	#REF!					
							#REF!	#REF!				
								#REF!	#REF!			
								#REF!	#REF!			
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							#NUM!	#NUM!				
							#NUM!	#NUM!				
							#NUM!	#NUM!				
						#NUM!	#NUM!					
			0.0	Cable							Cable	0
				0.0	Wire						Wire	0
					0.0	CopIngot					CopIngot	0
						0.0	CopOre				CopOre	0
							#REF!	#REF!				
							#REF!	#REF!				
						#NUM!	#NUM!					
							#NUM!	#NUM!				
					#NUM!	#NUM!						
						#NUM!	#NUM!					
							#NUM!	#NUM!				
						#NUM!	#NUM!					
							#NUM!	#NUM!				
				0.0							0	
					#REF!	#REF!						
						#REF!	#REF!					
							#REF!	#REF!				
								#REF!	#REF!			
								#REF!	#REF!			
							#REF!	#REF!				
						#REF!	#REF!					
					#REF!	#REF!						
						#REF!	#REF!					
			0.0	Plastic							Plastic	0
				0.0	Oil						Oil	0

					#REF!	#REF!						
						#REF!	#REF!					
					#REF!	#REF!						
						#REF!	#REF!					
				0.0							0	
					#REF!	#REF!						
						#REF!	#REF!					
							#REF!	#REF!				
							#REF!	#REF!				
						#REF!	#REF!					
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				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
			0.0	Screw							Screw	0
				0.0	IronRod						IronRod	0
					0.0	IronIngot					IronIngot	0
						0.0	IronOre				IronOre	0
							#REF!	#REF!				
							#REF!	#REF!				
						0.0					0	
					#NUM!	#NUM!						
				0.0							0	
					#REF!	#REF!						
		0.0	Oscillator								Oscillator	0
			0.0	Quartz							Quartz	0
			0.0	Cable							Cable	0
				0.0	Wire						Wire	0
					0.0	CopIngot					CopIngot	0
						0.0	CopOre				CopOre	0
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
				0.0							0	
					#REF!	#REF!						
			0.0	RePlate							RePlate	0
				0.0	IronPlate						IronPlate	0
					0.0	IronIngot					IronIngot	0
						0.0	IronOre				IronOre	0
							#REF!	#REF!				
							#REF!	#REF!				
						0.0					0	
							#REF!	#REF!				
					#NUM!	#NUM!						
						#NUM!	#NUM!					
							#NUM!	#NUM!				
						#NUM!	#NUM!					
							#NUM!	#NUM!				
				0.0	Screw						Screw	0
					0.0	IronRod					IronRod	0
						0.0	IronIngot				IronIngot	0
							0.0	IronOre			IronOre	0
								#REF!	#REF!			
								#REF!	#REF!			
							0.0				0	
						#NUM!	#NUM!					
					0.0						0	
						#REF!	#REF!					
0.0	HeatSink										HeatSink	0
	0.0	AlcladSheet									AlcladSheet	0.00
			0.0	AlumIngot							AlumIngot	0.00
				0.0	Bauxite						Bauxite	0.00
					#REF!	#REF!						
					#REF!	#REF!						
				0.0	Silica						Silica	0.00
					0.0	Quartz					Quartz	0.00
					0.0							0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00

					#REF!	#REF!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
		0.0	Rubber								Rubber	0.00
			0.0	Oil							Oil	0.00
				#REF!	#REF!							
					#REF!	#REF!						
						#REF!	#REF!					
						#REF!	#REF!					
					#REF!	#REF!						
				#REF!	#REF!							
			#NUM!	#NUM!								
				#NUM!	#NUM!							
	0.0	Rubber									Rubber	0.00
		0.0	Oil								Oil	0.00
			#REF!	#REF!								
				#REF!	#REF!							
					#REF!	#REF!						
					#REF!	#REF!						
				#REF!	#REF!							
		#NUM!	#NUM!									
			#NUM!	#NUM!								
				#NUM!	#NUM!							
				#NUM!	#NUM!							
			#NUM!	#NUM!								
				#NUM!	#NUM!							
0.0	RCUnit										RCUnit	0.00
	0.0	HeatSink									HeatSink	0.00
		0.0	AlcladSheet								AlcladSheet	0.00
			0.0	AlumIngot							AlumIngot	0.00
				0.0	Bauxite						Bauxite	0.00
				0.0	Silica						Silica	0.00
					0.0	Quartz					Quartz	0.00
					0.0							0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
		0.0	Rubber								Rubber	0.00
			0.0	Oil							Oil	0.00
				#REF!	#REF!							
				#REF!	#REF!							
	0.0	Rubber									Rubber	0.00
		0.0	Oil								Oil	0.00
	0.0	Computer									Computer	0.00
		0.0	CircBoard								CircBoard	0.00
			0.0	Wire							Wire	0.00
				0.0	CopIngot						CopIngot	0.00
					0.0	CopOre					CopOre	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
			0.0	Plastic							Plastic	0.00
				0.0	Oil						Oil	0.00
					#REF!	#REF!						
						#REF!	#REF!					
						#REF!	#REF!					
				0.0							0	
					#REF!	#REF!						
						#REF!	#REF!					
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							#REF!	#REF!				
						#REF!	#REF!					
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							#NUM!	#NUM!				
							#NUM!	#NUM!				
						#NUM!	#NUM!					
					#NUM!	#NUM!						
		0.0	Cable								Cable	0.00
			0.0	Wire							Wire	0.00
				0.0	CopIngot						CopIngot	0.00
					0.0	CopOre					CopOre	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
			0.0								0	
				#REF!	#REF!							
					#REF!	#REF!						
						#REF!	#REF!					
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							#REF!	#REF!				
						#REF!	#REF!					
					#REF!	#REF!						
				#REF!	#REF!							
					#REF!	#REF!						
		0.0	Plastic								Plastic	0.00
			0.0	Oil							Oil	0.00
				#REF!	#REF!							
					#REF!	#REF!						
				#REF!	#REF!							
					#REF!	#REF!						
			0.0								0	
				#REF!	#REF!							
					#REF!	#REF!						
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					#REF!	#REF!						
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					#REF!	#REF!						
			#NUM!	#NUM!								
				#NUM!	#NUM!							

					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
		0.0	Screw								Screw	0.00
			0.0	IronRod							IronRod	0.00
				0.0	IronIngot						IronIngot	0.00
					0.0	IronOre					IronOre	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					0.0						0	
				#NUM!	#NUM!							
			0.0								0	
				#REF!	#REF!							
	0.0	Oscillator									Oscillator	0.00
		0.0	Quartz								Quartz	0.00
		0.0	Cable								Cable	0.00
			0.0	Wire							Wire	0.00
				0.0	CopIngot						CopIngot	0.00
					0.0	CopOre					CopOre	0.00
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
			0.0								0	
				#REF!	#REF!							
		0.0	RePlate								RePlate	0.00
			0.0	IronPlate							IronPlate	0.00
				0.0	IronIngot						IronIngot	0.00
					0.0	IronOre					IronOre	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					0.0						0	
						#REF!	#REF!					
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
			0.0	Screw							Screw	0.00
				0.0	IronRod						IronRod	0.00
					0.0	IronIngot					IronIngot	0.00
						0.0	IronOre				IronOre	0.00
							#REF!	#REF!				
							#REF!	#REF!				
						0.0					0	
					#NUM!	#NUM!						
					0.0						0	
					#REF!	#REF!						
0.0	Battery										Battery	0.00
	0.0	AlcladSheet									AlcladSheet	0.00
		0.0	AlumIngot								AlumIngot	0.00
			0.0	Bauxite							Bauxite	0.00
			0.0	Silica							Silica	0.00
				0.0	Quartz						Quartz	0.00
				0.0								0.00
		0.0	CopIngot								CopIngot	0.00
			0.0	CopOre							CopOre	0.00
	0.0	Wire									Wire	0.00
		0.0	CopIngot								CopIngot	0.00
			0.0	CopOre							CopOre	0.00
			#NUM!	#NUM!								
	0.0	Sulfur									Sulfur	0.00
	0.0	Plastic									Plastic	0.00
		0.0	Oil								Oil	0.00
			#REF!	#REF!								
		0.0									0	
			#REF!	#REF!								
0.0	Beacon										Beacon	0.00
	0.0	IronPlate									IronPlate	0.00
		0.0	IronIngot								IronIngot	0.00
			0.0	IronOre							IronOre	0.00
				#REF!	#REF!							
				#REF!	#REF!							
			0.0								0	

	0.0 IronRod									IronRod	0.00
		0.0 IronIngot								IronIngot	0.00
			0.0 IronOre							IronOre	0.00
				#REF!	#REF!						
				#REF!	#REF!						
			0.0							0	
	0.0 Wire									Wire	0.00
		0.0 CopIngot								CopIngot	0.00
			0.0 CopOre							CopOre	0.00
			#NUM!	#NUM!							
		#NUM!	#NUM!								
			#NUM!	#NUM!							
				#NUM!	#NUM!						
					#NUM!	#NUM!					
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						#NUM!	#NUM!				
					#NUM!	#NUM!					
						#NUM!	#NUM!				
					#NUM!	#NUM!					
						#NUM!	#NUM!				
	0.0 Cable									Cable	0.00
		0.0 Wire								Wire	0.00
			0.0 CopIngot							CopIngot	0.00
				0.0 CopOre						CopOre	0.00
				#NUM!	#NUM!						
			#NUM!	#NUM!							
				#NUM!	#NUM!						
		0.0								0	
			#REF!	#REF!							
0.0 Biofuel										Biofuel	0.00
	0.0 Biomass									Biomass	0.00
0.0 Cartridge										Cartridge	0.00
	0.0 Nobelisk									Nobelisk	0.00
		0.0 BlkPowder								BlkPowder	0.00
			0.0 Coal							Coal	0.00
				#REF!	#REF!						
				#REF!	#REF!						
			0.0 Sulfur							Sulfur	0.00
		0.0 SteelPipe								SteelPipe	0.00
			0.0 SteelIngot							SteelIngot	0.00
				0.0 Coal						Coal	0.00
					#REF!	#REF!					
					#REF!	#REF!					
				0.0	IronOre					IronOre	0.00
		0.0 Beacon								Beacon	0.00
			0.0 IronPlate							IronPlate	0.00
				0.0 IronIngot						IronIngot	0.00
					0.0 IronOre					IronOre	0.00
						#REF!	#REF!				
						#REF!	#REF!				

					0.0						0	
			0.0	IronRod							IronRod	0.00
				0.0	IronIngot						IronIngot	0.00
					0.0	IronOre					IronOre	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					0.0						0	
			0.0	Wire							Wire	0.00
				0.0	CopIngot						CopIngot	0.00
					0.0	CopOre					CopOre	0.00
						#REF!	#REF!					
							#REF!	#REF!				
							#REF!	#REF!				
						#REF!	#REF!					
							#REF!	#REF!				
					#NUM!	#NUM!						
						#NUM!	#NUM!					
							#NUM!	#NUM!				
						#NUM!	#NUM!					
							#NUM!	#NUM!				
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
							#NUM!	#NUM!				
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								#NUM!	#NUM!			
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								#NUM!	#NUM!			
							#NUM!	#NUM!				
						#NUM!	#NUM!					
							#NUM!	#NUM!				
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								#NUM!	#NUM!			
							#NUM!	#NUM!				
								#NUM!	#NUM!			
									#NUM!	#NUM!		
									#NUM!	#NUM!		
								#NUM!	#NUM!			
						#NUM!	#NUM!					
							#NUM!	#NUM!				
							#NUM!	#NUM!				
								#NUM!	#NUM!			
									#NUM!	#NUM!		
									#NUM!	#NUM!		
										#NUM!	#NUM!	
										#NUM!	#NUM!	
									#NUM!	#NUM!		
							#NUM!	#NUM!				
							#NUM!	#NUM!				
								#NUM!	#NUM!			
			0.0	Cable							Cable	0.00
				0.0	Wire						Wire	0.00
					0.0	CopIngot					CopIngot	0.00
						0.0	CopOre				CopOre	0.00
						#NUM!	#NUM!					
				0.0							0	
					#REF!	#REF!						
	0.0	SteelPipe									SteelPipe	0.00
		0.0	SteelIngot								SteelIngot	0.00
			0.0	Coal							Coal	0.00
				#REF!	#REF!							
				#REF!	#REF!							
			0.0	IronOre							IronOre	0.00
0.0	CatIngot										CatIngot	0.00
	0.0	CatOre									CatOre	0.00
0.0	BlkPowder										BlkPowder	0.00
	0.0	Coal									Coal	0.00
		#REF!	#REF!									

		#REF!	#REF!									
	0.0	Sulfur									Sulfur	0.00
0.0	Cable										Cable	0.00
	0.0	Wire									Wire	0.00
		0.0	CopIngot								CopIngot	0.00
			0.0	CopOre							CopOre	0.00
			#NUM!	#NUM!								
		#NUM!	#NUM!									
			#NUM!	#NUM!								
	0.0										0	
		#REF!	#REF!									
0.0	CircBoard										CircBoard	0.00
	0.0	Wire									Wire	0.00
		0.0	CopIngot								CopIngot	0.00
			0.0	CopOre							CopOre	0.00
			#NUM!	#NUM!								
		#NUM!	#NUM!									
			#NUM!	#NUM!								
	0.0	Plastic									Plastic	0.00
		0.0	Oil								Oil	0.00
			#REF!	#REF!								
		0.0									0	
			#REF!	#REF!								
0.0	ColorCart										ColorCart	0.00
	0.0	Flowers									Flowers	0.00
0.0	ComCoal										ComCoal	0.00
	0.0	Coal									Coal	0.00
	0.0	Sulfur									Sulfur	0.00
0.0	Computer										Computer	0.00
	0.0	CircBoard									CircBoard	0.00
		0.0	Wire								Wire	0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
				#NUM!	#NUM!							
			#NUM!	#NUM!								
				#NUM!	#NUM!							
		0.0	Plastic								Plastic	0.00
			0.0	Oil							Oil	0.00
				#REF!	#REF!							
			0.0								0	
				#REF!	#REF!							
	0.0	Cable									Cable	0.00
		0.0	Wire								Wire	0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
				#NUM!	#NUM!							
		0.0									0	
			#REF!	#REF!								
				#REF!	#REF!							
					#REF!	#REF!						
					#REF!	#REF!						
				#REF!	#REF!							
					#REF!	#REF!						
			#REF!	#REF!								
				#REF!	#REF!							
		#NUM!	#NUM!									
			#NUM!	#NUM!								
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
			#NUM!	#NUM!								
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
							#NUM!	#NUM!				

							#NUM!	#NUM!				
						#NUM!	#NUM!					
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
	0.0	Plastic									Plastic	0.00
		0.0	Oil								Oil	0.00
			#REF!	#REF!								
		0.0									0	
			#REF!	#REF!								
	0.0	Screw									Screw	0.00
		0.0	IronRod								IronRod	0.00
			0.0	IronIngot							IronIngot	0.00
				0.0	IronOre						IronOre	0.00
					#REF!	#REF!						
					#REF!	#REF!						
				0.0							0	
			#NUM!	#NUM!								
0.0	Concrete										Concrete	0.00
	0.0	Limestone									Limestone	0.00
	0.0										0	
		#REF!	#REF!									
		#REF!	#REF!									
0.0	CopIngot										CopIngot	0.00
	0.0	CopOre									CopOre	0.00
0.0	Crystal										Crystal	0.00
	0.0	Quartz									Quartz	0.00
0.0	EncBeam										EncBeam	0.00
	0.0	SteelBeam									SteelBeam	0.00
		0.0	SteelIngot								SteelIngot	0.00
			0.0	Coal							Coal	0.00
				#REF!	#REF!							
				#REF!	#REF!							
			0.0	IronOre							IronOre	0.00
	0.0	Concrete									Concrete	0.00
		0.0	Limestone								Limestone	0.00
		0.0									0	
			#REF!	#REF!								
			#REF!	#REF!								
0.0	Fabric										Fabric	0.00
	0.0	Mycelia									Mycelia	0.00
	0.0	Leaves									Leaves	0.00
0.0	Filter										Filter	0.00
	0.0	Coal									Coal	0.00
	0.0	Rubber									Rubber	0.00
		0.0	Oil								Oil	0.00
	0.0	Fabric									Fabric	0.00
		0.0	Mycelia								Mycelia	0.00
0.0	Fuel										Fuel	0.00
	0.0	Oil									Oil	0.00
0.0	HSC										HSC	0.00
	0.0	QuickWire									QuickWire	0.00
		0.0	CatIngot								CatIngot	0.00
			0.0	CatOre							CatOre	0.00
		0.0									0	
			#REF!	#REF!								
	0.0	Cable									Cable	0.00
		0.0	Wire								Wire	0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
				#NUM!	#NUM!							
			#NUM!	#NUM!								
				#NUM!	#NUM!							
		0.0									0	
			#REF!	#REF!								
	0.0	Plastic									Plastic	0.00
		0.0	Oil								Oil	0.00
			#REF!	#REF!								
		0.0									0	
			#REF!	#REF!								
0.0	HvyFrame										HvyFrame	0.00
	0.0	ModFrame									ModFrame	0.00
		0.0	RePlate								RePlate	0.00
			0.0	IronPlate							IronPlate	0.00

				0.0	IronIngot					IronIngot	0.00
					0.0	IronOre				IronOre	0.00
					0.0					0	
			0.0	Screw						Screw	0.00
				0.0	IronRod					IronRod	0.00
					0.0	IronIngot				IronIngot	0.00
						0.0	IronOre			IronOre	0.00
							#REF!	#REF!			
							#REF!	#REF!			
						0.0				0	
					#NUM!	#NUM!					
		0.0	IronRod							IronRod	0.00
			0.0	IronIngot						IronIngot	0.00
				0.0	IronOre					IronOre	0.00
					#REF!	#REF!					
					#REF!	#REF!					
				0.0						0	
	0.0	EncBeam								EncBeam	0.00
		0.0	SteelBeam							SteelBeam	0.00
			0.0	SteelIngot						SteelIngot	0.00
				0.0	Coal					Coal	0.00
					#REF!	#REF!					
					#REF!	#REF!					
				0.0	IronOre					IronOre	0.00
		0.0	Concrete							Concrete	0.00
			0.0	Limestone						Limestone	0.00
			0.0							0	
				#REF!	#REF!						
				#REF!	#REF!						
	0.0	SteelPipe								SteelPipe	0.00
		0.0	SteelIngot							SteelIngot	0.00
			0.0	Coal						Coal	0.00
				#REF!	#REF!						
				#REF!	#REF!						
			0.0	IronOre						IronOre	0.00
	0.0	Screw								Screw	0.00
		0.0	IronRod							IronRod	0.00
			0.0	IronIngot						IronIngot	0.00
				0.0	IronOre					IronOre	0.00
					#REF!	#REF!					
					#REF!	#REF!					
				0.0						0	
			#NUM!	#NUM!							
		0.0								0	
			#REF!	#REF!							
			#REF!	#REF!							
0.0	IronIngot									IronIngot	0.00
	0.0	IronOre								IronOre	0.00
	0.0									0	
0.0	IronPlate									IronPlate	0.00
	0.0	IronIngot								IronIngot	0.00
		0.0	IronOre							IronOre	0.00
		0.0								0	
0.0	IronRod									IronRod	0.00
	0.0	IronIngot								IronIngot	0.00
		0.0	IronOre							IronOre	0.00
		0.0								0	
0.0	ModFrame									ModFrame	0.00
	0.0	RePlate								RePlate	0.00
		0.0	IronPlate							IronPlate	0.00
			0.0	IronIngot						IronIngot	0.00
				0.0	IronOre					IronOre	0.00
				0.0						0	
		0.0	Screw							Screw	0.00
			0.0	IronRod						IronRod	0.00
				0.0	IronIngot					IronIngot	0.00
					0.0	IronOre				IronOre	0.00
						#REF!	#REF!				
						#REF!	#REF!				
					0.0					0	
				#NUM!	#NUM!						
	0.0	IronRod								IronRod	0.00
		0.0	IronIngot							IronIngot	0.00

			0.0 IronOre							IronOre	0.00
				#REF!	#REF!						
				#REF!	#REF!						
			0.0							0	
0.0 Motor										Motor	0.00
	0.0 Rotor									Rotor	0.00
		0.0 IronRod								IronRod	0.00
			0.0 IronIngot							IronIngot	0.00
				0.0 IronOre						IronOre	0.00
					#REF!	#REF!					
					#REF!	#REF!					
				0.0						0	
		0.0 Screw								Screw	0.00
			0.0 IronRod							IronRod	0.00
				0.0 IronIngot						IronIngot	0.00
					0.0 IronOre					IronOre	0.00
						#REF!	#REF!				
						#REF!	#REF!				
					0.0					0	
				#NUM!	#NUM!						
	0.0 Stator									Stator	0.00
		0.0 SteelPipe								SteelPipe	0.00
			0.0 SteelIngot							SteelIngot	0.00
				0.0 Coal						Coal	0.00
					#REF!	#REF!					
					#REF!	#REF!					
				0.0 IronOre						IronOre	0.00
		0.0 Wire								Wire	0.00
			0.0 CopIngot							CopIngot	0.00
				0.0 CopOre						CopOre	0.00
				#NUM!	#NUM!						
			#NUM!	#NUM!							
				#NUM!	#NUM!						
	0.0									0	
		#REF!	#REF!								
		#REF!	#REF!								
			#REF!	#REF!							
				#REF!	#REF!						
					#REF!	#REF!					
					#REF!	#REF!					
				#REF!	#REF!						
					#REF!	#REF!					
			#REF!	#REF!							
				#REF!	#REF!						
		#REF!	#REF!								
			#REF!	#REF!							
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						#REF!	#REF!				
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					#REF!	#REF!					
						#REF!	#REF!				
			#REF!	#REF!							
				#REF!	#REF!						
					#REF!	#REF!					
						#REF!	#REF!				
					#REF!	#REF!					
						#REF!	#REF!				
0.0 Nobelisk										Nobelisk	0.00
	0.0 BlkPowder									BlkPowder	0.00
		0.0 Coal								Coal	0.00
			#REF!	#REF!							
			#REF!	#REF!							
		0.0 Sulfur								Sulfur	0.00

	0.0	SteelPipe									SteelPipe	0.00
		0.0	SteelIngot								SteelIngot	0.00
			0.0	Coal							Coal	0.00
				#REF!	#REF!							
				#REF!	#REF!							
			0.0	IronOre							IronOre	0.00
	0.0	Beacon									Beacon	0.00
		0.0	IronPlate								IronPlate	0.00
			0.0	IronIngot							IronIngot	0.00
				0.0	IronOre						IronOre	0.00
					#REF!	#REF!						
					#REF!	#REF!						
				0.0							0	
		0.0	IronRod								IronRod	0.00
			0.0	IronIngot							IronIngot	0.00
				0.0	IronOre						IronOre	0.00
					#REF!	#REF!						
					#REF!	#REF!						
				0.0							0	
					#REF!	#REF!						
		0.0	Wire								Wire	0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
					#REF!	#REF!						
						#REF!	#REF!					
						#REF!	#REF!					
					#REF!	#REF!						
						#REF!	#REF!					
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
			#NUM!	#NUM!								
				#NUM!	#NUM!							
					#NUM!	#NUM!						
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					#NUM!	#NUM!						
						#NUM!	#NUM!					
				#NUM!	#NUM!							
					#NUM!	#NUM!						
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					#NUM!	#NUM!						
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							#NUM!	#NUM!				
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
							#NUM!	#NUM!				
								#NUM!	#NUM!			
								#NUM!	#NUM!			
							#NUM!	#NUM!				
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
		0.0	Cable								Cable	0.00
			0.0	Wire							Wire	0.00

				0.0	CopIngot						CopIngot	0.00
					0.0	CopOre					CopOre	0.00
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
			0.0								0	
				#REF!	#REF!							
0.0	Oscillator										Oscillator	0.00
	0.0	Quartz									Quartz	0.00
	0.0	Cable									Cable	0.00
		0.0	Wire								Wire	0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
				#NUM!	#NUM!							
			#NUM!	#NUM!								
				#NUM!	#NUM!							
		0.0									0	
			#REF!	#REF!								
	0.0	RePlate									RePlate	0.00
		0.0	IronPlate								IronPlate	0.00
			0.0	IronIngot							IronIngot	0.00
				0.0	IronOre						IronOre	0.00
					#REF!	#REF!						
					#REF!	#REF!						
				0.0							0	
					#REF!	#REF!						
			#NUM!	#NUM!								
				#NUM!	#NUM!							
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
		0.0	Screw								Screw	0.00
			0.0	IronRod							IronRod	0.00
				0.0	IronIngot						IronIngot	0.00
					0.0	IronOre					IronOre	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					0.0						0	
				#NUM!	#NUM!							
			0.0								0	
				#REF!	#REF!							
0.0	Plastic										Plastic	0.00
	0.0	Oil									Oil	0.00
		#REF!	#REF!									
	0.0										0	
		#REF!	#REF!									
0.0	QuickWire										QuickWire	0.00
	0.0	CatIngot									CatIngot	0.00
		0.0	CatOre								CatOre	0.00
	0.0										0	
		#REF!	#REF!									
0.0	RePlate										RePlate	0.00
	0.0	IronPlate									IronPlate	0.00
		0.0	IronIngot								IronIngot	0.00
			0.0	IronOre							IronOre	0.00
			0.0								0	
	0.0	Screw									Screw	0.00
		0.0	IronRod								IronRod	0.00
			0.0	IronIngot							IronIngot	0.00
				0.0	IronOre						IronOre	0.00
					#REF!	#REF!						
					#REF!	#REF!						
				0.0							0	
			#NUM!	#NUM!								
0.0	Rotor										Rotor	0.00
	0.0	IronRod									IronRod	0.00
		0.0	IronIngot								IronIngot	0.00
			0.0	IronOre							IronOre	0.00
				#REF!	#REF!							
				#REF!	#REF!							
			0.0								0	
	0.0	Screw									Screw	0.00
		0.0	IronRod								IronRod	0.00

			0.0 IronIngot							IronIngot	0.00
				0.0 IronOre						IronOre	0.00
					#REF! #REF!						
					#REF! #REF!						
				0.0						0	
			#NUM! #NUM!								
0.0 Rubber										Rubber	0.00
	0.0 Oil									Oil	0.00
0.0 Screw										Screw	0.00
	0.0 IronRod									IronRod	0.00
		0.0 IronIngot								IronIngot	0.00
			0.0 IronOre							IronOre	0.00
				#REF! #REF!							
				#REF! #REF!							
			0.0							0	
		#NUM! #NUM!									
0.0 Silica										Silica	0.00
	0.0 Quartz									Quartz	0.00
	0.0										0.00
0.0 SpikedRebar										SpikedRebar	0.00
	0.0 IronRod									IronRod	0.00
		0.0 IronIngot								IronIngot	0.00
			0.0 IronOre							IronOre	0.00
			0.0							0	
0.0 Stator										Stator	0.00
	0.0 SteelPipe									SteelPipe	0.00
		0.0 SteelIngot								SteelIngot	0.00
			0.0 Coal							Coal	0.00
				#REF! #REF!							
				#REF! #REF!							
			0.0 IronOre							IronOre	0.00
	0.0 Wire									Wire	0.00
		0.0 CopIngot								CopIngot	0.00
			0.0 CopOre							CopOre	0.00
			#NUM! #NUM!								
		#NUM! #NUM!									
			#NUM! #NUM!								
0.0 SteelBeam										SteelBeam	0.00
	0.0 SteelIngot									SteelIngot	0.00
		0.0 Coal								Coal	0.00
			#REF! #REF!								
			#REF! #REF!								
		0.0 IronOre								IronOre	0.00
0.0 SteelIngot										SteelIngot	0.00
	0.0 Coal									Coal	0.00
		#REF! #REF!									
		#REF! #REF!									
	0.0 IronOre									IronOre	0.00
0.0 SteelPipe										SteelPipe	0.00
	0.0 SteelIngot									SteelIngot	0.00
		0.0 Coal								Coal	0.00
			#REF! #REF!								
			#REF! #REF!								
		0.0 IronOre								IronOre	0.00
0.0 SuperComputer										SuperComputer	0.00
	0.0 Computer									Computer	0.00
		0.0 CircBoard								CircBoard	0.00
			0.0 Wire							Wire	0.00
				0.0 CopIngot						CopIngot	0.00
					0.0 CopOre					CopOre	0.00
					#NUM! #NUM!						
				#NUM! #NUM!							
					#NUM! #NUM!						
			0.0 Plastic							Plastic	0.00
				0.0 Oil						Oil	0.00
					#REF! #REF!						
				0.0						0	
					#REF! #REF!						
		0.0 Cable								Cable	0.00
			0.0 Wire							Wire	0.00
				0.0 CopIngot						CopIngot	0.00
					0.0 CopOre					CopOre	0.00
					#NUM! #NUM!						
			0.0							0	

				#REF!	#REF!							
					#REF!	#REF!						
						#REF!	#REF!					
						#REF!	#REF!					
					#REF!	#REF!						
						#REF!	#REF!					
				#REF!	#REF!							
					#REF!	#REF!						
			#NUM!	#NUM!								
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
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							#NUM!	#NUM!				
						#NUM!	#NUM!					
							#NUM!	#NUM!				
					#NUM!	#NUM!						
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						#NUM!	#NUM!					
							#NUM!	#NUM!				
				#NUM!	#NUM!							
					#NUM!	#NUM!						
						#NUM!	#NUM!					
							#NUM!	#NUM!				
								#NUM!	#NUM!			
								#NUM!	#NUM!			
							#NUM!	#NUM!				
						#NUM!	#NUM!					
					#NUM!	#NUM!						
						#NUM!	#NUM!					
		0.0	Plastic								Plastic	0.00
			0.0	Oil							Oil	0.00
				#REF!	#REF!							
			0.0								0	
				#REF!	#REF!							
		0.0	Screw								Screw	0.00
			0.0	IronRod							IronRod	0.00
				0.0	IronIngot						IronIngot	0.00
					0.0	IronOre					IronOre	0.00
						#REF!	#REF!					
						#REF!	#REF!					
					0.0						0	
				#NUM!	#NUM!							
0.0	AIL										AIL	0.00
	0.0	CircBoard									CircBoard	0.00
		0.0	Wire								Wire	0.00
			0.0	CopIngot							CopIngot	0.00
				0.0	CopOre						CopOre	0.00
				#NUM!	#NUM!							
			#NUM!	#NUM!								
				#NUM!	#NUM!							
		0.0	Plastic								Plastic	0.00
			0.0	Oil							Oil	0.00
				#REF!	#REF!							
			0.0								0	
				#REF!	#REF!							
	0.0	QuickWire									QuickWire	0.00
		0.0	CatIngot								CatIngot	0.00
			0.0	CatOre							CatOre	0.00
				#REF!	#REF!							
					#REF!	#REF!						
					#REF!	#REF!						
				#REF!	#REF!							
			#NUM!	#NUM!								
		0.0									0	
			#REF!	#REF!								
0.0	HSC										HSC	0.00
	0.0	QuickWire									QuickWire	0.00
		0.0	CatIngot								CatIngot	0.00
			0.0	CatOre							CatOre	0.00
		0.0									0	
			#REF!	#REF!								

		0.0	Cable								Cable	0.00
			0.0	Wire							Wire	0.00
				0.0	CopIngot						CopIngot	0.00
					0.0	CopOre					CopOre	0.00
					#NUM!	#NUM!						
				#NUM!	#NUM!							
					#NUM!	#NUM!						
			0.0								0	
				#REF!	#REF!							
		0.0	Plastic								Plastic	0.00
			0.0	Oil							Oil	0.00
				#REF!	#REF!							
			0.0								0	
				#REF!	#REF!							
	0.0	Plastic									Plastic	0.00
		0.0	Oil								Oil	0.00
			#REF!	#REF!								
		0.0									0	
			#REF!	#REF!								
0.0	TurboFuel										TurboFuel	0.00
	0.0	Fuel									Fuel	0.00
		0.0	Oil								Oil	0.00
	0.0	ComCoal									ComCoal	0.00
		0.0	Coal								Coal	0.00
		0.0	Sulfur								Sulfur	0.00
0.0	Wire										Wire	0.00
	0.0	CopIngot									CopIngot	0.00
		0.0	CopOre								CopOre	0.00
		#NUM!	#NUM!									
0.0	Biofuel										Biofuel	0.00
	0.0	Biomass									Biomass	0.00
#N/A	TurboFuel										TurboFuel	#N/A
	#N/A	Fuel									Fuel	#N/A
		#N/A	Oil								Oil	#N/A
	#N/A	ComCoal									ComCoal	#N/A
		#N/A	Coal								Coal	#N/A
		#N/A	Sulfur								Sulfur	#N/A
0.0	ComCoal										ComCoal	0.00
	0.0	Coal									Coal	0.00
	0.0	Sulfur									Sulfur	0.00
0.0	Coal										Coal	0.00
0.0	Fuel										Fuel	0.00
	0.0	Oil									Oil	0.00
0.4	NukeFuelRd_O										NukeFuelRd_O	0.40
	6.7	UraniumCell									UraniumCell	6.75
		30.4	Uranium								Uranium	30.37
		6.1	Concrete								Concrete	6.07
			18.2	Limestone							Limestone	18.22
			0.0									0.00
				#REF!	#REF!						#REF!	#REF!
				#REF!	#REF!						#REF!	#REF!
		0.0										0.00
			#REF!	#REF!							#REF!	#REF!
			#REF!	#REF!							#REF!	#REF!
		0.0										0.00
			#REF!	#REF!							#REF!	#REF!
				#REF!	#REF!						#REF!	#REF!
			#REF!	#REF!							#REF!	#REF!
				#REF!	#REF!						#REF!	#REF!
	1.3	EMCRod									EMCRod	1.35
		4.0	Stator								Stator	4.05
			12.1	SteelPipe							SteelPipe	12.15
				12.1	SteelIngot						SteelIngot	12.15
					18.2	Coal					Coal	18.22
						#REF!	#REF!				#REF!	#REF!
						#REF!	#REF!				#REF!	#REF!
					18.2	IronOre					IronOre	18.22
			40.5	Wire							Wire	40.49
				13.4	CopIngot						CopIngot	13.36
					13.4	CopOre					CopOre	13.36
					#NUM!	#NUM!					#NUM!	#NUM!
				#NUM!	#NUM!						#NUM!	#NUM!
					#NUM!	#NUM!					#NUM!	#NUM!
		2.7	AIL								AIL	2.70

			2.7	CircBoard								CircBoard	2.70
				32.4	Wire							Wire	32.40
					10.7	CopIngot						CopIngot	10.69
						10.7	CopOre					CopOre	10.69
						#NUM!	#NUM!					#NUM!	#NUM!
					#NUM!	#NUM!						#NUM!	#NUM!
						#NUM!	#NUM!					#NUM!	#NUM!
				16.2	Plastic							Plastic	16.20
					21.5	Oil						Oil	21.54
						#REF!	#REF!					#REF!	#REF!
					0.0								0.00
						#REF!	#REF!					#REF!	#REF!
			48.6	QuickWire								QuickWire	48.59
				12.1	CatIngot							CatIngot	12.15
					36.4	CatOre						CatOre	36.45
						#REF!	#REF!					#REF!	#REF!
						#REF!	#REF!					#REF!	#REF!
					#NUM!	#NUM!						#NUM!	#NUM!
						#NUM!	#NUM!					#NUM!	#NUM!
				0.0									0.00
					#REF!	#REF!						#REF!	#REF!
			#NUM!	#NUM!								#NUM!	#NUM!
				#NUM!	#NUM!							#NUM!	#NUM!
					#NUM!	#NUM!						#NUM!	#NUM!
				#NUM!	#NUM!							#NUM!	#NUM!
					#NUM!	#NUM!						#NUM!	#NUM!
0.4	Oscillator											Oscillator	0.40
	4.0	Quartz										Quartz	4.05
		#REF!	#REF!									#REF!	#REF!
			#REF!	#REF!								#REF!	#REF!
				#REF!	#REF!							#REF!	#REF!
				#REF!	#REF!							#REF!	#REF!
			#REF!	#REF!								#REF!	#REF!
	5.7	Cable										Cable	5.67
		11.3	Wire									Wire	11.34
			3.7	CopIngot								CopIngot	3.74
				3.7	CopOre							CopOre	3.74
				#NUM!	#NUM!							#NUM!	#NUM!
			#NUM!	#NUM!								#NUM!	#NUM!
				#NUM!	#NUM!							#NUM!	#NUM!
		0.0											0.00
			#REF!	#REF!								#REF!	#REF!
	1.6	RePlate										RePlate	1.62
		6.5	IronPlate									IronPlate	6.48
			13.0	IronIngot								IronIngot	12.96
				13.0	IronOre							IronOre	12.96
					#REF!	#REF!						#REF!	#REF!
					#REF!	#REF!						#REF!	#REF!
				0.0									0.00
					#REF!	#REF!						#REF!	#REF!
			#NUM!	#NUM!								#NUM!	#NUM!
				#NUM!	#NUM!							#NUM!	#NUM!
					#NUM!	#NUM!						#NUM!	#NUM!
				#NUM!	#NUM!							#NUM!	#NUM!
					#NUM!	#NUM!						#NUM!	#NUM!
		38.9	Screw									Screw	38.88
			6.6	IronRod								IronRod	6.61
				6.6	IronIngot							IronIngot	6.61
					6.6	IronOre						IronOre	6.61
						#REF!	#REF!					#REF!	#REF!
						#REF!	#REF!					#REF!	#REF!
					0.0								0.00
					#NUM!	#NUM!						#NUM!	#NUM!
				0.0									0.00
					#REF!	#REF!						#REF!	#REF!
0.8	Beacon											Beacon	0.81
	2.4	IronPlate										IronPlate	2.43
		4.9	IronIngot									IronIngot	4.86
			4.9	IronOre								IronOre	4.86
				#REF!	#REF!							#REF!	#REF!
				#REF!	#REF!							#REF!	#REF!
			0.0										0.00
	0.8	IronRod										IronRod	0.81

			0.8	IronIngot							IronIngot	0.81
				0.8	IronOre						IronOre	0.81
					#REF!	#REF!					#REF!	#REF!
					#REF!	#REF!					#REF!	#REF!
				0.0								0.00
		12.1	Wire								Wire	12.15
			4.0	CopIngot							CopIngot	4.01
				4.0	CopOre						CopOre	4.01
				#NUM!	#NUM!						#NUM!	#NUM!
			#NUM!	#NUM!							#NUM!	#NUM!
				#NUM!	#NUM!						#NUM!	#NUM!
					#NUM!	#NUM!					#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
					#NUM!	#NUM!					#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
				#NUM!	#NUM!						#NUM!	#NUM!
					#NUM!	#NUM!					#NUM!	#NUM!
			#NUM!	#NUM!							#NUM!	#NUM!
				#NUM!	#NUM!						#NUM!	#NUM!
					#NUM!	#NUM!					#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
							#NUM!	#NUM!			#NUM!	#NUM!
							#NUM!	#NUM!			#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
							#NUM!	#NUM!			#NUM!	#NUM!
					#NUM!	#NUM!					#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
							#NUM!	#NUM!			#NUM!	#NUM!
							#NUM!	#NUM!			#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
							#NUM!	#NUM!			#NUM!	#NUM!
				#NUM!	#NUM!						#NUM!	#NUM!
					#NUM!	#NUM!					#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
							#NUM!	#NUM!			#NUM!	#NUM!
								#NUM!	#NUM!		#NUM!	#NUM!
								#NUM!	#NUM!		#NUM!	#NUM!
							#NUM!	#NUM!			#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
					#NUM!	#NUM!					#NUM!	#NUM!
						#NUM!	#NUM!				#NUM!	#NUM!
		1.6	Cable								Cable	1.62
			3.2	Wire							Wire	3.24
				1.1	CopIngot						CopIngot	1.07
					1.1	CopOre					CopOre	1.07
					#NUM!	#NUM!					#NUM!	#NUM!
				#NUM!	#NUM!						#NUM!	#NUM!
					#NUM!	#NUM!					#NUM!	#NUM!
			0.0									0.00
				#REF!	#REF!						#REF!	#REF!

HvyFrame	Manufacturer	2	Manufacturer	HvyFrame	2.00	Manufacturer	HvyFrame_Con	2.8125									
HvyFrame_Con	ModFrame	5.00	ModFrame		5.00	ModFrame		2.66									
	EncBeam	5	EncBeam		5.00	EncBeam		3.33									
	SteelPipe	15.00	SteelPipe		15.00	SteelPipe		12.00									
	Screw	90.00	Screw		90.00	Concrete		8.33									
Computer	Manufacturer	1.9	Manufacturer	Computer	1.90	Manufacturer	Computer_QW	2.81	Assembler	Computer_Crys	2.50						
Computer_QW	CircBoard	5.00	CircBoard		5.00	CircBoard		3.33	CircBoard		2.00						
Computer_Crys	Cable	12.00	Cable		12.00	QuickWire		37.33	Oscillator		1.00						
	Plastic	18.00	Plastic		18.00	Rubber		16.00									
	Screw	60.00	Screw		60.00												
SuperComputer	Manufacturer	1.875	Manufacturer	SuperComputer	1.88												
	Computer	2.00	Computer		2.00												
	AIL	2.00	AIL		2.00												
	HSC	3.00	HSC		3.00												
	Plastic	21.00	Plastic		21.00												
HSC	Manufacturer	2.5	Manufacturer	HSC	2.50	Manufacturer	HSC_Silica	3.75									
HSC_Silica	QuickWire	40.00	QuickWire		40.00	QuickWire		22.00									
	Cable	10.00	Cable		10.00	Silica		16.00									
	Plastic	6.00	Plastic		6.00	Rubber		6.00									
Filter	Manufacturer	7.5	Manufacturer	Filter	7.50												
	Coal	5.00	Coal		5.00												
	Rubber	2.00	Rubber		2.00												
	Fabric	2.00	Fabric		2.00												
Oscillator	Manufacturer	1.875	Manufacturer	Oscillator	1.88	Manufacturer	Oscillator_AIL	2.81									
Oscillator_AIL	Quartz	10.00	Quartz		10.00	Quartz		6.67									
	Cable	14.00	Cable		14.00	Rubber		8.00									
	RePlate	4.00	RePlate		4.00	AIL		0.33									
Nobelisk	Manufacturer	3	Manufacturer	Nobelisk	3.00	Manufacturer	Nobelisk_Osc	4.50									
Nobelisk_Osc	BlkPowder	5.00	BlkPowder		5.00	BlkPowder		3.33									
	SteelPipe	5.00	SteelPipe		5.00	SteelPipe		3.33									
	Beacon	1.00	Beacon		1.00	Oscillator		0.33									
Beacon	Manufacturer	7.5	Manufacturer	Beacon	7.50	Manufacturer	Beacon_Steel	9.38									
Beacon_Steel	IronPlate	3.00	IronPlate		3.00	SteelBeam		0.20									
	IronRod	1.00	IronRod		1.00	SteelPipe		0.80									
	Wire	15.00	Wire		15.00	Oscillator		0.20									
	Cable	2.00	Cable		2.00												
CircBoard	Assembler	5	Assembler	CircBoard	5.00	Assembler	CircBoard_QW	7.50	Assembler	CircBoard_Wire	7.50						
CircBoard_QW	Wire	12.00	Wire		12.00	QuickWire		4.00	Wire		5.33						
CircBoard_Wire	Plastic	6.00	Plastic		6.00	Plastic		10.67	Rubber		8.00						
RePlate	Assembler	5	Assembler	RePlate	5.00	Assembler	RePlate_More	7.50	Assembler	RePlate_Wire	7.50						
RePlate_More	IronPlate	4.00	IronPlate		4.00	IronPlate		3.33	IronPlate		2.00						
RePlate_Wire	Screw	24.00	Screw		24.00	Screw		8.00	Wire		10.00						
Rotor	Assembler	6	Assembler	Rotor	6.00	Assembler	Rotor_Pipe	9.00									
Rotor_Pipe	IronRod	3.00	IronRod		3.00	SteelPipe		2.00									
	Screw	22.00	Screw		22.00	Wire		6.67									
ModFrame	Assembler	4	Assembler	ModFrame	4.00	Assembler	ModFrame_Pip	6.00									
ModFrame_Pip	RePlate	3.00	RePlate		3.00	RePlate		2.00									
	IronRod	6.00	IronRod		6.00	SteelPipe		2.00									
EncBeam	Assembler	4	Assembler	EncBeam	4.00	Assembler	EncBeam_Pipe	6.00									
EncBeam_Pipe	SteelBeam	4.00	SteelBeam		4.00	SteelPipe		6.00									
	Concrete	5.00	Concrete		5.00	Concrete		3.33									
Stator	Assembler	6	Assembler	Stator	6.00	Assembler	Stator_QW	9.00									
Stator_QW	SteelPipe	3.00	SteelPipe		3.00	SteelPipe		2.00									
	Wire	10.00	Wire		10.00	QuickWire		8.33									
Motor	Assembler	5	Assembler	Motor	5.00	Manufacturer	Motor_Osc	7.50									
Motor_Osc	Rotor	2.00	Rotor		2.00	Rotor		0.67									
	Stator	2.00	Stator		2.00	Stator		0.67									
						Oscillator		1.00									
Fabric	Assembler	15	Assembler	Fabric	15.00												
	Mycelia	1.00	Mycelia		1.00												
	Leaves	2.00	Leaves		2.00												
AIL	Assembler	5	Assembler	AIL	5.00												
	CircBoard	1.00	CircBoard		1.00												
	QuickWire	18.00	QuickWire		18.00												
BlkPowder	Assembler	7.5	Assembler	BlkPowder	7.50	Assembler	BlkPowder_CC	7.50									
BlkPowder_CC	Coal	2.00	Coal		2.00	ComCoal		1.00									
	Sulfur	1.00	Sulfur		1.00	Sulfur		0.50									
Cartridge	Assembler	12	Assembler	Cartridge	12.00												
	Nobelisk	0.25	Nobelisk		0.25												
	SteelPipe	1.00	SteelPipe		1.00												
ComCoal	Assembler	30	Assembler	ComCoal	30.00												
	Coal	1.00	Coal		1.00												
	Sulfur	1.00	Sulfur		1.00												
TurboFuel	Assembler	18.75	Assembler	TurboFuel	18.75												
	Fuel	1.00	Fuel		1.00												
	ComCoal	0.80	ComCoal		0.80												
Silica	Constructor	45	Constructor	Silica	45.00	Assembler	Silica_Lime	67.50									
Silica_Lime	Quartz	0.67	Quartz		0.67	Quartz		0.44									
			#REF!			Limestone		0.22									
SteelIngot	Foundry	30	Foundry	SteelIngot	30.00	Foundry	SteelIngot_II	45.00	Foundry	SteelIngot_CC	45.00						
SteelIngot_II	Coal	1.50	Coal		1.50	IronIngot		0.50	ComCoal		1.00						
SteelIngot_CC	IronOre	1.50	IronOre		1.50	Coal		1.00	IronOre		0.50						
IronPlate	Constructor	15	Constructor	IronPlate	15.00												
	IronIngot	2.00	IronIngot		2.00												
IronRod	Constructor	15	Constructor	IronRod	15.00												
	IronIngot	1.00	IronIngot		1.00												
Cable	Constructor	15	Constructor	Cable	15.00	Assembler	Cable_Rubber	75.00	Assembler	Cable_QW	90.00						
Cable_Rubber	Wire	2.00	Wire		2.00	Wire		0.30	QuickWire		0.33						
Cable_QW						Rubber		0.20	Rubber		0.17						
Concrete	Constructor	15	Constructor	Concrete	15.00	Assembler	Concrete_Silica	22.50									
Concrete_Silica	Limestone	3.00	Limestone		3.00	Limestone		1.33									
						Silica		0.33									
Screw	Constructor	90	Constructor	Screw	90.00	Constructor	Screw_Ingot	90.00	Constructor	Screw_Steel	180.00						
Screw_Ingot	IronRod	0.17	IronRod		0.17	IronIngot		0.17	SteelBeam		0.03						
Screw_Steel																	
Biofuel	Constructor	30	Constructor	Biofuel	30.00												
	Biomass	2.00	Biomass		2.00												
SteelBeam	Constructor	10	Constructor	SteelBeam	10.00												
	SteelIngot	3.00	SteelIngot		3.00												
SteelPipe	Constructor	15	Constructor	SteelPipe	15.00												
	SteelIngot	1.00	SteelIngot		1.00												
ColorCart	Constructor	75	Constructor	ColorCart	75.00												
	Flowers	0.50	Flowers		0.50												
SpikedRebar	Constructor	15	Constructor	SpikedRebar	15.00												
	IronRod	1.00	IronRod		1.00												
QuickWire	Constructor	60	Constructor	QuickWire	60.00	Assembler	QuickWire_Cop	90.00									
QuickWire_Cop	CatIngot	0.25	CatIngot		0.25	CatIngot		0.08									
						CopIngot		0.17									
Crystal	Constructor	15	Constructor	Crystal	15.00												
	Quartz	2.00	Quartz		2.00												
IronIngot	Smelter	30	Smelter	IronIngot	30.00	Foundry	IronIngot_Cop	45.00									
IronIngot_Cop	IronOre	1.00	IronOre		1.00	IronOre		0.33									
						CopOre		0.33									
CopIngot	Smelter	30	Smelter	CopIngot	30.00												
	CopOre	1.00	CopOre		1.00												
CatIngot	Smelter	15	Smelter	CatIngot	15.00												
	CatOre	3.00	CatOre		3.00												
Fuel	Oil Refinery	37.5	Oil Refinery	Fuel	37.50												
	Oil	1.60	Oil		1.60												
Plastic	Oil Refinery	22.5	Oil Refinery	Plastic	22.50	Assembler	Plastic_Fuel	33.75									
Plastic_Fuel	Oil	1.33	Oil		1.33	Fuel		0.56									
						Rubber		0.89									
Rubber	Oil Refinery	30	Oil Refinery	Rubber	30.00												
	Oil	1.00	Oil		1.00												
Wire	Constructor	45	Constructor	Wire	45.00	Constructor	Wire_Iron	67.50	Constructor	Wire_Cat	67.50						
Wire_Iron	CopIngot	0.33	CopIngot		0.33	IronIngot		0.22	CatIngot		0.11						
Wire_Cat																	
PShardGreen			Constructor	PShardGreen	6	Constructor	PShardYellow	6	Constructor	PShardPurple	15						
PShardYellow			GreenSlug		1.00	YellowSlug		0.50	PurpleSlug		0.20						
PShardPurple																	
BiomassLeaves			Constructor	BiomassLeaves	90	Constructor	BiomassMyc	150	Constructor	BiomassWood	375	Constructor	BiomassAC	1500	Constructor	BiomassAO	1500
BiomassMyc			Leaves		1.67	Mycelia		1.00	Wood		0.20	AlienCarapace		0.01	AlienOrgans		0.01
BiomassWood																	
BiomassAC																	
BiomassAO																	
CoalWood			Constructor	CoalWood	150	Constructor	CoalBiomass	45									
CoalBiomass			Wood		0.10	Biomass		0.83									

AlumIngot	Foundry	30	Foundry	AlumIngot	30.00					
	Bauxite	3.50	Bauxite		3.50					
	Silica	3.00	Silica		3.00					
AlcladSheet	Assembler	15	Assembler	AlcladSheet	15.00					
	AlumIngot	1.00	AlumIngot		1.00					
	CopIngot	0.67	CopIngot		0.67					
HeatSink	Assembler	5	Assembler	HeatSink	5.00	Assembler	HeatSink_Wire	7.50		
HeatSink_Wire	AlcladSheet	4.00	AlcladSheet		4.00	AlcladSheet		2.67		
	Rubber	10	Rubber		10	Wire		12.00		
HazMatFilter	Manufacturer	3.75	Manufacturer	HazMatFilter	3.75					
	Filter	1.00	Filter		1.00					
	QuickWire	8	QuickWire		8					
	Rubber	2	Rubber		2					
EMCRod	Assembler	2	Assembler	EMCRod	2.00	Assembler	EMCRod_HSC	3.00		
EMCRod_HSC	Stator	3.00	Stator		3.00	Stator		2.00		
	AIL	2	AIL		2	HSC		1.00		
NukeFuelRd	Manufacturer	0.6	Manufacturer	NukeFuelRd	0.40	Manufacturer	NukeFuelRd_O	0.60		
NukeFuelRd_O	UraniumCell	16.67	UraniumCell		25.00	UraniumCell		16.67		
	EMCRod	3.33	EMCRod		5.00	EMCRod		3.33		
	Oscillator	1	EncBeam		3	Oscillator		1.00		
	Beacon	2				Beacon		2.00		
UraniumCell	Assembler	10	Assembler	UraniumCell	10.00	Manufacturer	UraniumCell_S	17.50		
UraniumCell_S	Uranium	4.50	Uranium		4.50	Uranium		1.29		
	Concrete	0.90	Concrete		0.90	Sulfur		1.29		
						Silica		1.29		
						QuickWire		1.71		
TurboMotor	Manufacturer	1.9	Manufacturer	TurboMotor	1.90	Manufacturer	TurboMotor_AI	2.8		
TurboMotor_AI	Motor	4.00	Motor		4.00	Motor		2.67		
	RCUnit	2	RCUnit		2.00	RCUnit		1.33		
	HeatSink	4.00	HeatSink		4.00	AIL		2.67		
	Rubber	40.00	Rubber		40.00	Stator		2.67		
Battery	Manufacturer	5.6	Manufacturer	Battery	5.60					
	AlcladSheet	2.67	AlcladSheet		2.67	k				
	Wire	8	Wire		8.00	omputer				
	Sulfur	6.67	Sulfur		6.67					
	Plastic	3.00	Plastic		3.00					
RCUnit	Manufacturer	2.5	Manufacturer	RCUnit	2.50	Manufacturer	RCUnit_SC	3.8		
RCUnit_SC	HeatSink	4.00	HeatSink		4.00	HeatSink		3.33		
	Rubber	24	Rubber		24.00	Quartz		10.00		
	Computer	1.00	Computer		1.00	SuperComputer		0.33		
	Oscillator	1.00	Oscillator		1.00					

		lime			oil			cat ore			quartz			cop ore			iron ore			coal			sulfur			bauxite			uranium			SAM		geysers
		45540			9750			10680			11100			21720			64860			20100			6480			4980			1200			5400		
max rpm	780	600	300	600	300	150	780	600	300	780	600	300	780	600	300	780	600	300	780	600	300	780	600	300	780	600	300	780	600	300	780	600	300	
totals	17940	25800	1800	4200	4200	1350	4680	6000	0	3900	7200	0	7020	13200	1500	36660	21000	7200	7800	12000	300	780	5400	300	780	4200	0	0	1200	0	0	3000	2400	
	Pure	Normal	Impure				Pure	Normal	Impure				Pure	Normal	Impure				pure	normal	impure	Pure	Normal	Impure							Pure	Normal	Impure	
	23	43	6	7	14	9	6	10	0	5	12	0	9	22	5	47	35	24	10	20	1	1	9	1	1	7			2			5	8	17
	22	42	5	6	13	8	5	9		4	11		8	21	4	46	34	23	9	19	0	0	8	0	0	6			1			4	7	16
	21	41	4	5	12	7	4	8		3	10		7	20	3	45	33	22	8	18			7			5			0			3	6	15
	20	40	3	4	11	6	3	7		2	9		6	19	2	44	32	21	7	17			6			4						2	5	14
	19	39	2	3	10	5	2	6		1	8		5	18	1	43	31	20	6	16			5			3						1	4	13
	18	38	1	2	9	4	1	5		0	7		4	17	0	42	30	19	5	15			4			2						0	3	12
	17	37	0	1	8	3	0	4			6		3	16		41	29	18	4	14			3			1							2	11
	16	36		0	7	2		3			5		2	15		40	28	17	3	13			2			0							1	10
	15	35			6	1		2			4		1	14		39	27	16	2	12			1										0	9
	14	34			5	0		1			3		0	13		38	26	15	1	11			0											8
	13	33			4			0			2			12		37	25	14	0	10														7
	12	32			3						1			11		36	24	13		9														6
	11	31			2						0			10		35	23	12		8														5
	10	30			1									9		34	22	11		7														4
	9	29			0									8		33	21	10		6														3
	8	28												7		32	20	9		5														2
	7	27												6		31	19	8		4														1
	6	26												5		30	18	7		3														0
	5	25												4		29	17	6		2														
	4	24												3		28	16	5		1														
	3	23												2		27	15	4		0														
	2	22												1		26	14	3																
	1	21												0		25	13	2																
	0	20														24	12	1																
		19														23	11	0																
		18														22	10																	
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		slugs	
		984	
max rpm	5	2	1
totals	355	286	343
	purple	yellow	green
	71	143	343
	70	142	342
	69	141	341
	68	140	340
	67	139	339
	66	138	338
	65	137	337
	64	136	336
	63	135	335
	62	134	334
	61	133	333
	60	132	332
	59	131	331
	58	130	330
	57	129	329
	56	128	328
	55	127	327
	54	126	326
	53	125	325
	52	124	324
	51	123	323
	50	122	322
	49	121	321
	48	120	320
	47	119	319
	46	118	318
	45	117	317
	44	116	316
	43	115	315
	42	114	314
	41	113	313
	40	112	312
	39	111	311
	38	110	310
	37	109	309
	36	108	308
	35	107	307
	34	106	306
	33	105	305
	32	104	304
	31	103	303
	30	102	302
	29	101	301
	28	100	300
	27	99	299
	26	98	298
	25	97	297
	24	96	296
	23	95	295
	22	94	294
	21	93	293
	20	92	292
	19	91	291
	18	90	290
	17	89	289
	16	88	288
	15	87	287
	14	86	286
	13	85	285
	12	84	284
	11	83	283
	10	82	282
	9	81	281
	8	80	280
	7	79	279
	6	78	278
	5	77	277
	4	76	276
	3	75	275
	2	74	274
	1	73	273
	0	72	272
		71	271
		70	270
		69	269
		68	268
		67	267
		66	266
		65	265
		64	264
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		46	246
		45	245
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		43	243
		42	242
		41	241
		40	240
		39	239
		38	238
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		36	236
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		23	223
		22	222
		21	221
		20	220
		19	219
		18	218
		17	217
		16	216
		15	215
		14	214
		13	213
		12	212
		11	211
		10	210
		9	209
		8	208
		7	207
		6	206
		5	205
		4	204
		3	203
		2	202
		1	201
		0	200
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			86

2500	20	50	150	200							
Nuke Plant	**Bio Burner**	**Coal Gen**	**Fuel Gen**	**Geo-Thermal**	**ManGen1**	**ManGen2**	**ManGen3**	**ManGen4**	**ManGen5**	**ManGen6**	**AutoGen**
NukeFuelRd	Biofuel (BB)	Coal	Biofuel (FG)	17 Gen Max	NukeFuelRd	Biofuel (BB)	Coal	NukeFuelRd	Coal	17 Gen Max	NukeFuelRd
	Alien Organs	ComCoal	Fuel			Alien Organs	ComCoal		ComCoal		
	Alien Carapace		TurboFuel			Alien Carapace					
	Biomass					Biomass					
	Wood					Wood					
	Vines					Vines					
	Mycelia					Mycelia					
	Fabric					Fabric					
	Leaves					Leaves					

	Common Fuels Reference Chart					
	Fuel Gen	**Generator Capacity**	**150.00 MW**	**204.97 MW**	**255.79 MW**	**303.74 MW**
	BioFuel (FG)	Max Burn Rate	2.0 secs	1.5 secs	1.2 secs	1.0 secs
		Max RPM	30.0/min	41.0/min	51.2/min	60.7/min
		Total Max RPM	**30.0/min**	**41.0/min**	**51.2/min**	**60.7/min**
	Fuel	Max Burn Rate	5.0 secs	3.7 secs	2.9 secs	2.5 secs
		Max RPM	12.0/min	16.4/min	20.5/min	24.3/min
		Total Max RPM	**12.0/min**	**16.4/min**	**20.5/min**	**24.3/min**
	TurboFuel	Max Burn Rate	13.3 secs	9.7 secs	7.1 secs	5.2 secs
		Max RPM	4.5/min	6.2/min	7.7/min	9.1/min
		Total Max RPM	**4.5/min**	**6.2/min**	**7.7/min**	**9.1/min**
		Generator count	**1**	**1**	**1**	**1**
		Total Capacity	**150.00 MW**	**204.97 MW**	**255.79 MW**	**303.74 MW**
	Coal Gen	**Generator Capacity**	**50.00 MW**	**68.32 MW**	**85.26 MW**	**101.25 MW**
	Coal	Max Burn Rate	5.4 secs	4.0 secs	2.9 secs	2.1 secs
		Max RPM	11.1/min	15.2/min	20.7/min	28.3/min
		Total Max RPM	**11.1/min**	**15.2/min**	**20.7/min**	**28.3/min**
	ComCoal	Max Burn Rate	12.0 secs	8.8 secs	6.4 secs	4.7 secs
		Max RPM	5.0/min	6.8/min	9.3/min	12.8/min
		Total Max RPM	**5.0/min**	**6.8/min**	**9.3/min**	**12.8/min**
		Generator count	**1**	**1**	**1**	**1**
		Total Capacity	**50.00 MW**	**68.32 MW**	**85.26 MW**	**101.25 MW**
	Bio-Burner	**Generator Capacity**	**40.00 MW**	**54.66 MW**	**74.69 MW**	**102.05 MW**
	Biomass	Max Burn Rate	6.0 secs	4.4 secs	3.2 secs	2.4 secs
		Max RPM	10.0/min	13.7/min	18.7/min	25.5/min
		Total Max RPM	**10.0/min**	**13.7/min**	**18.7/min**	**25.5/min**
	BioFuel	Max Burn Rate	15.0 secs	11.0 secs	8.0 secs	5.9 secs
		Max RPM	4.0/min	5.5/min	7.5/min	10.2/min
		Total Max RPM	**4.0/min**	**5.5/min**	**7.5/min**	**10.2/min**
		Generator count	**1**	**1**	**1**	**1**
		Total Capacity	**40.00 MW**	**54.66 MW**	**74.69 MW**	**102.05 MW**
	GeoThermal	**Generator Capacity**	**200.00 MW**	**200.00 MW**	**200.00 MW**	**200.00 MW**
	17 Gen Max	Max Burn Rate	0	0	0	0
		Max RPM	0	0	0	0
		Total Max RPM	0	0	0	0
		Generator count	**1**	**1**	**1**	**1**
		Total Capacity	**200.00 MW**	**200.00 MW**	**200.00 MW**	**200.00 MW**
	Nuke Plant	**Generator Capacity**	**2500.00 MW**	**3416.10 MW**	**4263.17 MW**	**5062.37 MW**
	NukeFuelRd	Max Burn Rate	300.0 secs	219.5 secs	175.9 secs	148.2 secs
		Max RPM	0.2/min	0.3/min	0.3/min	0.4/min
		Total Max RPM	**0.2/min**	**0.3/min**	**0.3/min**	**0.4/min**
		Generator count	**1**	**1**	**1**	**1**
		Total Capacity	**2500.00 MW**	**3416.10 MW**	**4263.17 MW**	**5062.37 MW**

Fuel Type	RPM	Burn Rate
Leaves	80.0	0.75
Fabric	80.0	0.75
Mycelia	60.0	1
Vines	34.3	1.75
Wood	12.0	5
Biomass	10.0	6
Alien Organs	4.8	12.5
Alien Carapace	4.8	12.5
Biofuel (BB)	4.0	15
Coal	11.1	5.4
ComCoal	5.0	12
Biofuel (FG)	30.0	2
Fuel	12.0	5
TurboFuel	4.5	13.3
17 Gen Max	0	0
NukeFuelRd	0.2	300

	base MW use		100%	150%	200%	250.00%
Manufacturer	55.00 MW	**1**	55.00 MW	105.22 MW	166.73 MW	238.27 MW
Assembler	15.00 MW	**1**	15.00 MW	28.70 MW	45.47 MW	64.98 MW
Constructor	4.00 MW	**1**	4.00 MW	7.65 MW	12.13 MW	17.33 MW
Smelter	4.00 MW	**1**	4.00 MW	7.65 MW	12.13 MW	17.33 MW
Foundry	16.00 MW	**1**	16.00 MW	30.61 MW	48.50 MW	69.31 MW
Oil Refinery	50.00 MW	**1**	50.00 MW	95.66 MW	151.57 MW	216.61 MW
Oil Pump	40.00 MW	**1**	40.00 MW	76.53 MW	121.26 MW	173.29 MW
Miner MK 3	30.00 MW	**1**	30.00 MW	57.39 MW	90.94 MW	129.96 MW
Miner MK 2	12.00 MW	**1**	12.00 MW	22.96 MW	36.38 MW	51.99 MW
Miner MK 1	4.00 MW	**1**	4.00 MW	7.65 MW	12.13 MW	17.33 MW
		109.83 MW	**<< 188% pump**			

PortMiner	
4	IronPlate
8	Wire
4	Cable
XenoZap	
10	IronRod
2	RePlate
15	Cable
50	Wire
Chainsaw	
10	RePlate
25	IronRod
200	Screw
15	Cable
ObjectScanner	
4	RePlate
3	Beacon
50	Screw
Beacon(MAN)	
3	IronPlate
1	IronRod
15	Wire
2	Cable
ColorGun	
5	IronPlate
100	Screw
40	Wire
ColorCart(MAN)	
0.5	Flower
Parachute	
10	Fabric
5	Cable
RebarGun	
6	RePlate
16	IronRod
100	Screw
SpikedRebar(MAN)	
1	IronRod
XenoBash	
5	ModFrame
2	XenoZap
20	Cable
200	Wire

BladeRunners	
50	QuickWire
3	ModFrame
3	Rotor
MedInhaler	
1	BaconAg
2	PaleBerry
5	BerylNut
2	Mycelia
Jetpack	
25	Cable
3	CB
25	Plastic
50	Rubber
GasMask	
50	Rubber
25	Plastic
10	Fabric
Filter(MAN)	
5	Coal
2	Rubber
2	Fabric