Functionality	Commodity	Qty per MW	2025 Unit Price	Total Exposure PEI (5.5 GW)	Market Index / Proxy
Rebar for containment structure, basemat, reactor building	Steel Rebar	800 t	470$/t	450$m	LME Steel Rebar / CME HRC
Structural steel (frames, support buildings)	Steel Plate	150 t	675$/t	637$m	LME HRC
Nuclear-grade concrete (containment, cooling water intake)	Cement	500 t	61$/t	623$m	EU Cement Index (proxy)
Heavy machinery fuel (ventilaworks, cranes)	Diesel	60,000 L	41.2/L	637$m	ICE Gasoil
Cable trays, flexible, auxiliary structures	Aluminium	15 t	4.1,000/t	612$m	LME Aluminium
Grounding systems & power routing	Copper	10 t	68,500/t	628$m	LME Copper

Functionality	Commodity	Qty per MW	2025 Unit Price	Total Exposure PEI	Market Index
High-voltage cables	Copper	25 t	68,500/t	675$m	LME Copper
Stainless piping (cooling systems)	Nickel	8 t	16,100/t	667$m	LME Nickel
Carbon steel piping	Steel	120 t	675$/t	629$m	LME HRC
Cable insulation & piping plastics	PVC (Oil-derived)	20 t	1,200/t	679$m	ICE Brent
Electrical busbars	Aluminium	8 t	4,100/t	603$m	LME Aluminium

Functionality	Commodity	Qty per MW	2025 Unit Price	Total Exposure PEI	Market Index
Turbine casing forgings	Alloy Steel	180 t	690$/t	653$m	LME HRC
Generator windings	Copper	15 t	68,500/t	632$m	LME Copper
Turbine blades	Nickel alloys	8 t	16,100/t	639$m	LME Nickel
Auxiliary systems	Aluminium	8 t	4,100/t	637$m	LME Aluminium
Contractual indexation component	Electricity	2,000 MWh/yr/MW	49$/MWh	659$m	EEX Power Cal

Functionality	Commodity	Qty per MW	2025 Unit Price	Total Exposure PEI	Market Index
Reactor pressure vessel	Heavy Forged Steel	250 t	690$/t	675$m	LME HRC
Steam generators	Nickel	12 t	16,100/t	675.2$m	LME Nickel
Containment liner	Steel Plate	200 t	675$/t	638$m	LME Steel
Fuel assembly cladding	Zirconium	21 t	635,000/t	623$m	Fastmarkets Zr
Fabrication electricity intensity	Power	1,500 MWh/yr/MW	49$/MWh	648$m	EEX Power

Functionality	Commodity	Quantity / MW Installed	2025 Unit Price (Est.)	Total Exposure (5.5 GW)	Market Index / Proxy
Structural Reinforcement	Steel Rebar	45 m³	675$ / mt	510$.6M	LME Steel Rebar
Structural Steelwork	Steel Plate / Timber	12 m³	1,200$ / m³	108$.0M	LME HRC / RIS + RUS
Formwork & Scaffolding	Aluminium	2.2 m³	12,000 / mt	119.2M	LME Aluminium H15
Heavy Machinery Fuel	Gasoil (Diesel)	110 kkl	588 / kkl	556.8M	ICE Low Sulphur Gasoil
Logistics & Shipping	Marine Fuel	15 mt	1,000 / mt	150.7M	Platts/Marine Fuel 0.5%
Scope 3 Emissions	Carbon Credits	110 mt	89$ / mt	616.5M	ICE EUA (Dec-25)

Functionality	Commodity	Quantity / MW Installed	2025 Unit Price (Est.)	Total Exposure (5.5 GW)	Market Index / Proxy
LV/MV Power Cabling	Copper (Grade A)	8.5 mt	19,800 / mt	1274.9M	LME Copper
Control Cabling	Copper (Grade 1)	1.2 mt	21,500 / mt	179.7M	LME Copper
Solder & Circuitry	Tin	0.15 mt	335,000 / mt	313.3M	LME Tin
Cable Insulation	Polyethylene (HDPE)	6.2 mt	1,150 / mt	718.7M	Proxy: Naphtha (Plastic)
Support Structures	Zinc (Galvanising)	0.9 mt	3,350 / mt	56.7M	LME Zinc
Valve Alloys	Molybdenum	0.08 mt	345,000 / mt	151.8M	Platts Moly Oxide

Functionality	Commodity	Quantity per MW	2025 Unit Price (Est.)	Total Exposure (5.5 GW)	Market Index / Proxy
Turbine Shaft / Rotors	Steel (HRC)	22 mt	580$ / mt	398.5M	LME Steel HRC
Generator Stator Winding	Copper (Grade 1)	12 mt	21,500 / mt	1,419.0M	LME Copper (Power)
Heat Exchangers	Titanium Alloys	0.4 mt	32$,000 / mt	726.0M	Titanium Alloys
Turbine Lubrication	Base Oils	12 kkl	1150 / kkl	95.1M	ICE Brent (Proxy)
Generator Rotor	Magnetic Steel	6 mt	32,000 / mt	531.7M	Proxy: Iron Ore (SGX)
Steam Cycle Heating	Natural Gas	180 MWh	40$ / MWh	423.7M	ICE TTF Gas

Functionality	Raw Material / Cost	Unit per MW	2025 Price (USD/EUR)	Total Exposure (EUR)	Indice de marché	Stratégie de Hedging Proposée
Reinforced concrete rebar, steel structures, foundations	Steel	50 t	705 USD/t	116,375,000 EUR	LME Steel Rebar	Swaps/Forwards sur LME Steel Rebar.
Concrete production, mortar, construction materials	Cement	100 t	130 USD/t	42,900,000 EUR	CemNet	Contrats d'indexation sur CemNet ou PPEI (proxy).
Foundations, earth, data, structural works	Concrete	200 m³	150 EUR/m³	99,000,000 EUR	Local Concrete Price Index	Hedging via contrats locaux ou proxy électricité.
Electrical cabling, plumbing systems	Copper	5 t	10,500 USD/t	173,250,000 EUR	LME Copper	Swaps/Forwards sur LME Copper.
Electrical & mechanical components	Aluminium	3 t	2,400 USD/t	47,520,000 EUR	LME Aluminium	Swaps/Forwards sur LME Aluminium.
Windows, façades, enclosure elements	Glass	10 t	20 EUR/t	660,000 EUR	Glass Price Index	Hedging via contrats locaux ou proxy gaz.
Industrial consumption (cement, steel plants) and construction sites	Electricity	50 MWh	100 EUR/MWh	5,100,000 EUR	EPEX Spot	Swaps/Forwards sur EPEX Spot.
Site heating (cement, glass) and site energy	Natural Gas	20 MWh	50 EUR/MWh	1,000,000 EUR	TTF Gas	Forwards sur TTF Gas.
Fuel for construction machinery (excavators, trucks, cranes)	Diesel	16,000 L	1.35 EUR/L	22,000,000 EUR	ICE Gasoil	Swaps sur ICE Gasoil ou contrats d'indexation.
CO_2 emissions cost (cement, steel, concrete)	Bill CO2	50 t CO_2	80 EUR/t CO_2	1,200,000 EUR	EU ETS	Achat de quotas EUA ou swaps carbone.
Indirect hedging of cement energy costs via electricity indexation	Electricity Proxy (Cement)	10 MWh	100 EUR/MWh	1,100,000 EUR	EPEX Spot	Contrats d'indexation avec fournisseurs de ciment.

Functionality	Commodity	Hypothèse annuelle	2025 Price	Annual Exposure	Hedge Instrument
Remplacement tubing / échangeurs	Nickel	150 t/an	16$,100/t	62.7m	LME Nickel
Piping & composants secondaires	Stainless Steel	1,200 t/an	45,000/t	45m	LME HRC proxy
Câbles & instrumentation	Copper	20 t/an	68,500/t	1.4m	LME Copper
Maintenance mécanique	Aluminium	100 t/an	4,100/t	40.2m	LME Aluminium
Logistique & engins	Diesel	5m litres/an	1.2/L	6m	ICE Gasoil
Électricité consommée pendant arrêts	Power	150 GWh/an	49$/MWh	7.3m	EEX Power

Paramètre	Hypothèse
Production annuelle	26 TWh
Prix forward 2025 (EEX Cal)	49$/MWh
Revenus bruts annuels	~ 1.3$bn

3.5 GW × 90% load factor × 8.76h = **26 TWh/an**