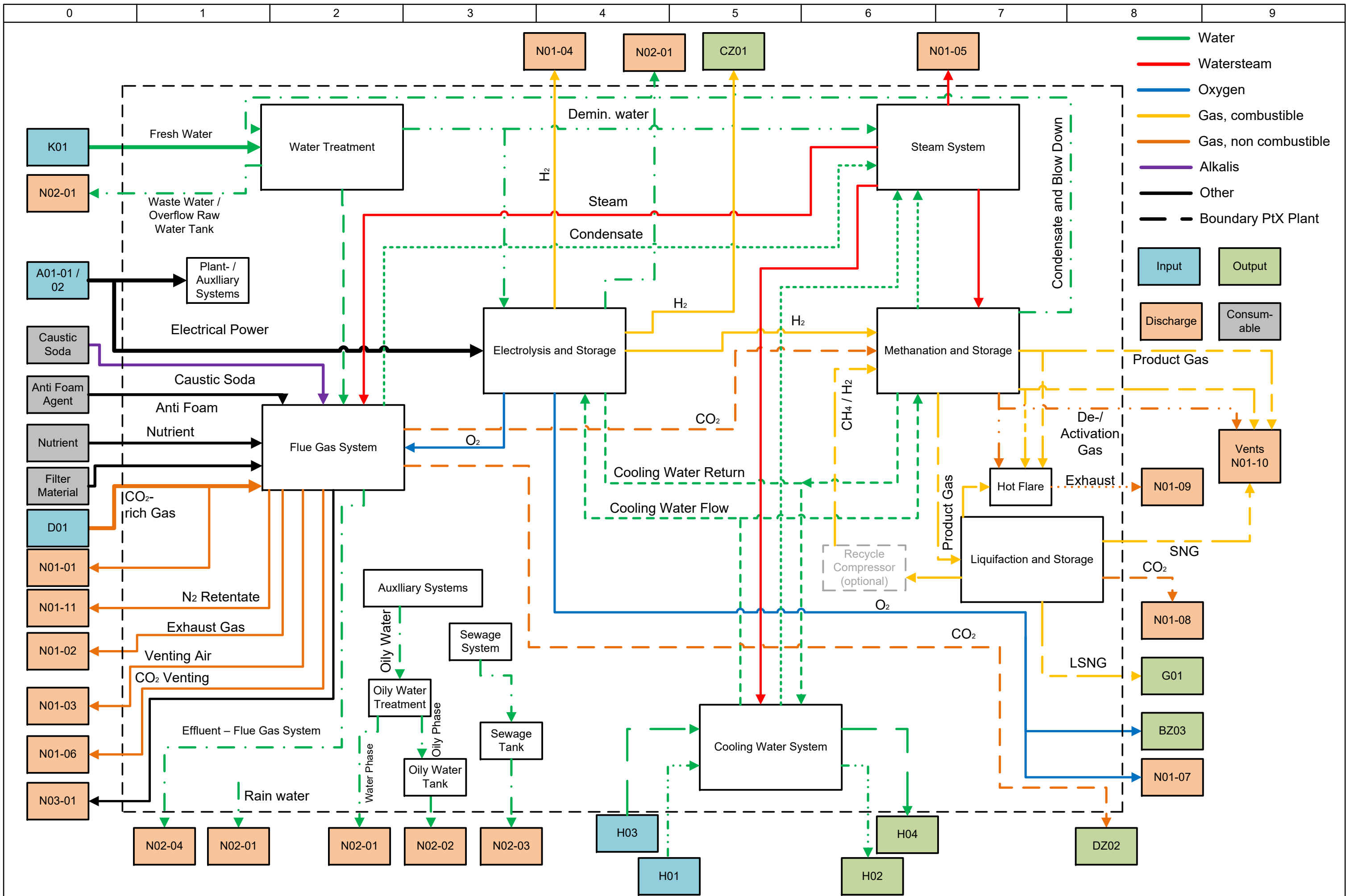

Scheme of **Block Diagram**

PtX Plant

Project: 5390104 Reykjanes, Iceland
KKS Code: 0
Revision: D
Issued by: PSPT
23.06.2023



0	1	2	3	4	5	6	7	8	9
	Input		Output		Discharge				
	A01-01 / 02	Electric Power for Electrolysis and BoP	BZ03	Oxygen – for export	N01-01	CO ₂ -rich gas - Emergency Discharge	Vent N01-10	De-/Activation Gas, Product Gas, Feed Gas, SNG – Operational Discharge and during De- and Activation, Start Up and Shut Down	
	K01	Fresh Water	CZ01	Hydrogen – for export	N01-02	Exhaust Flue Gas Treatment – N ₂ , O ₂ , CO ₂ , H ₂ S (downstream rough Filtration; in specific cases full H ₂ S content possible)	Vent N01-11	Retentate of N ₂ Separation	
	D01	CO ₂ -rich Gas	DZ02	CO ₂ - for export	N01-03	Venting Air of Tanks and Apparatus – Air and Traces of other components			
	H01	Industrial Heating in	H02	Industrial Heating out	N01-04	Hydrogen – Operational (minor amount) and Emergency Discharge	N02-01	Clean Water – Discharge to Percolation Area, different Locations in Plant Area	
	H03	Sea Water in	H04	Sea Water out	N01-05	Steam – Emergency Discharge	N02-02	Oily Water – Discharge by Truck	
	Consum-able		G01	Liquefied SNG	N01-06	CO ₂ - Emergency Discharge	N02-03	Sewage Water – Discharge by Truck	
	Caustic Soda	Caustic Soda for H ₂ S removal			N01-07	Oxygen – Operational and Emergency Discharge	N02-04	Effluent Flue Gas System	
	Nutrient	Nutrient for Bio Reactor			N01-08	CO ₂ – Operational Discharge	N03-01	Discharge Filter Material – Activated Carbon and Fe-/Cu-/Zn-based Material for H ₂ S removal	
	Anti Foam Agent	Anti Foam Agent for Bio Reactor	Filter Material	Single use or combination of: Activated Carbon and Fe-/Cu-/Zn-based Material for H ₂ S removal	N01-09	Exhaust Gas from Flare - Operational Discharge during De- and Activation, Start Up and Shut Down			