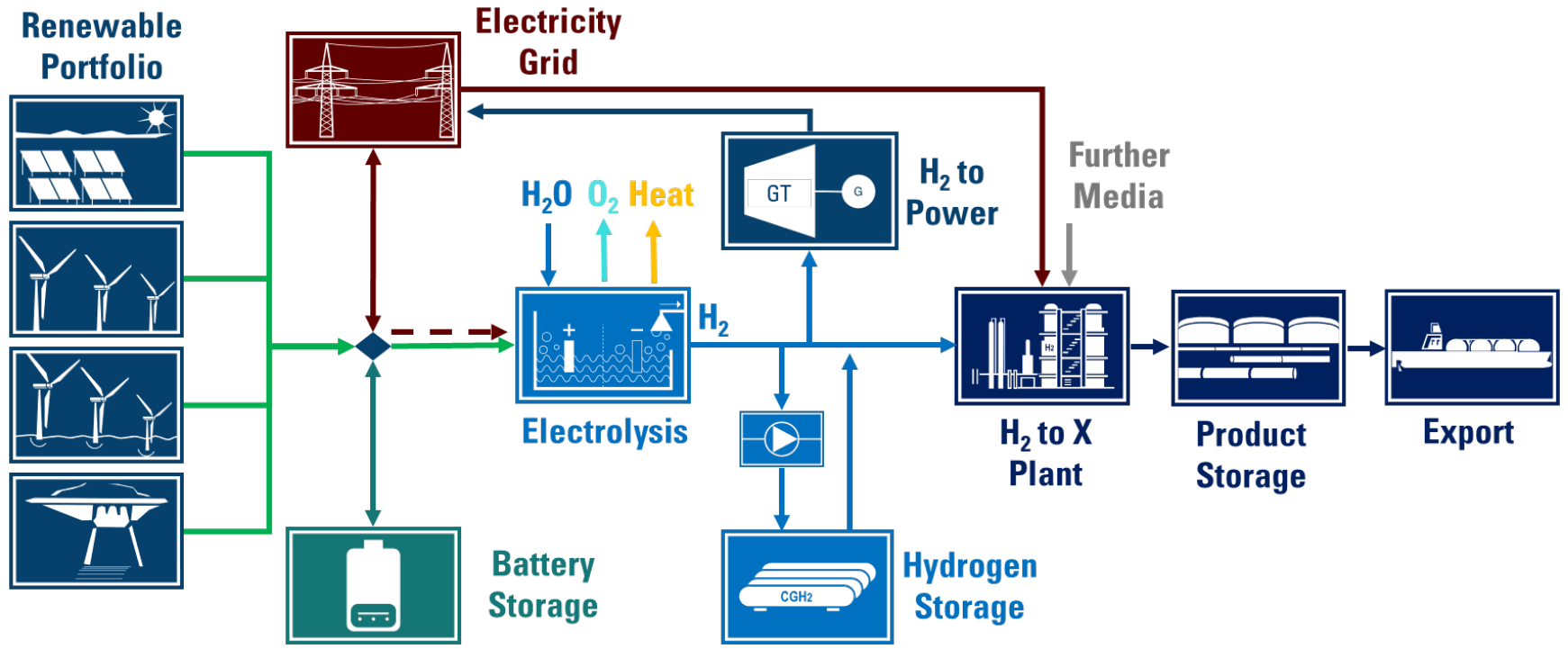


- Renewable and PtX-plant configuration analysis
- e.g. during project concept and feasibility stage
- Optimisation model to minimise e.g. costs, emissions, storage capacities, etc.



Objective function e.g.:

$$\text{Minimize costs} = \sum_{tech} Capacity_{tech} * CAPEX_{tech} + \sum_{tech} Capacity_{tech} * FixOPEX_{tech} + \sum_{tech} \sum_t Var.OPEX_{tech} * Utilization_{tech,t}$$

Function simplified

Plant configuration implementation in AIMMS

- Methodology features:
- Linear optimization
 - Calculation on hourly basis
 - Wide set of technology options
 - Highly adaptable model
- Versatile constraints can be implemented e.g.:
- Minimum part-load
 - Maximum capacities
 - Emission limits
 - Cost and price curves