

SUHAIL

AI-Powered Gas Network Optimization

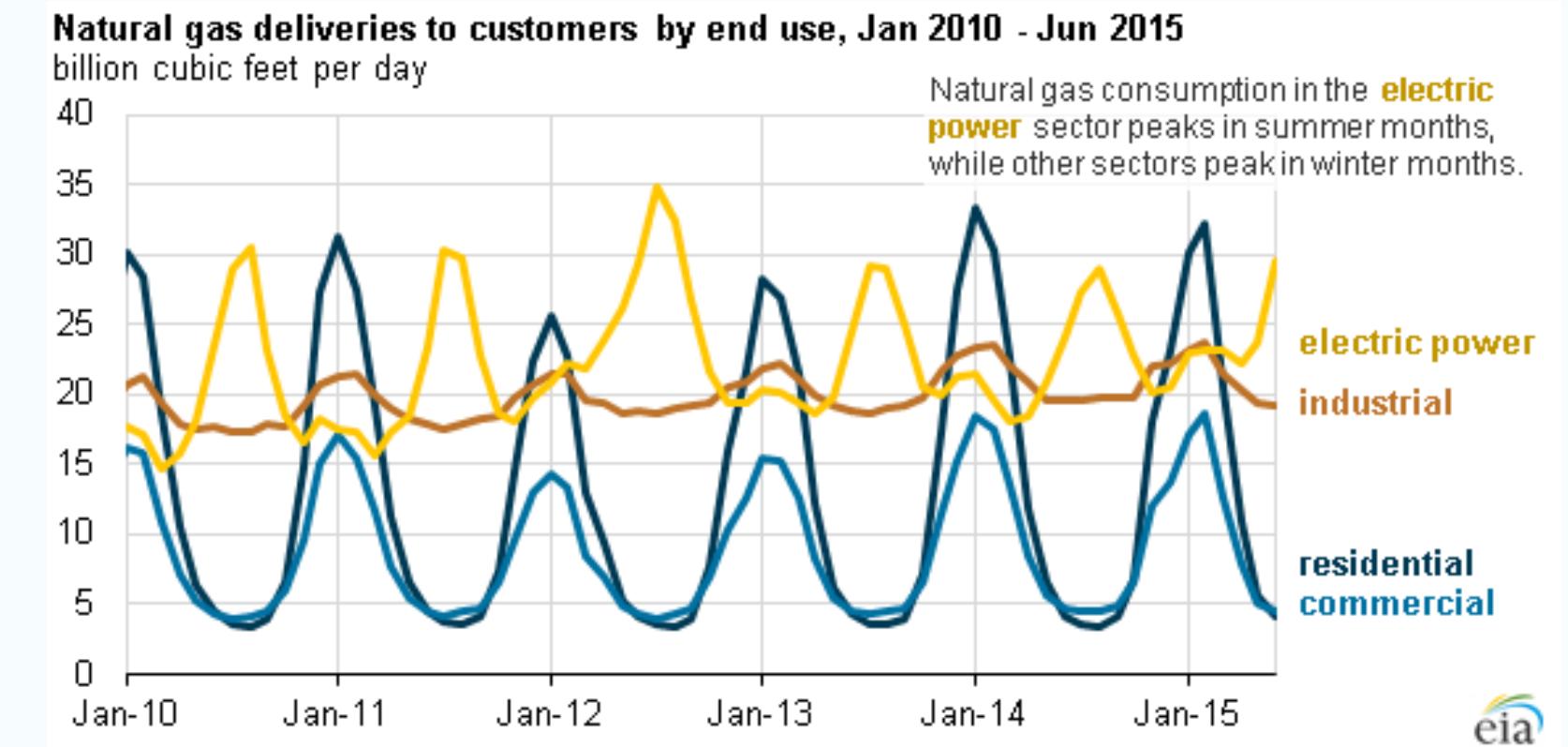
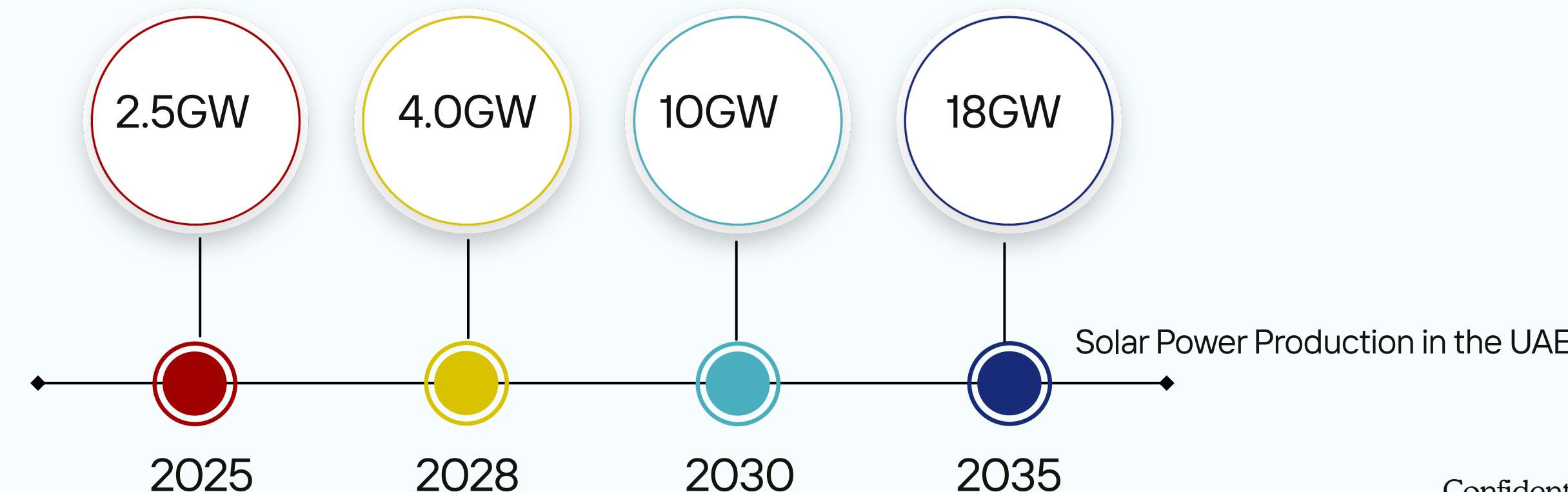
The Game Changer

Rames AlJneibi
Founder & CEO

Problem : Gas Demand Swings

Renewables cause massive swings in Gas Demand. Today's solutions are operational and reactive, not planning-level and predictive. This inefficient solution results in asset damage and revenue lost.

Problem is getting worse

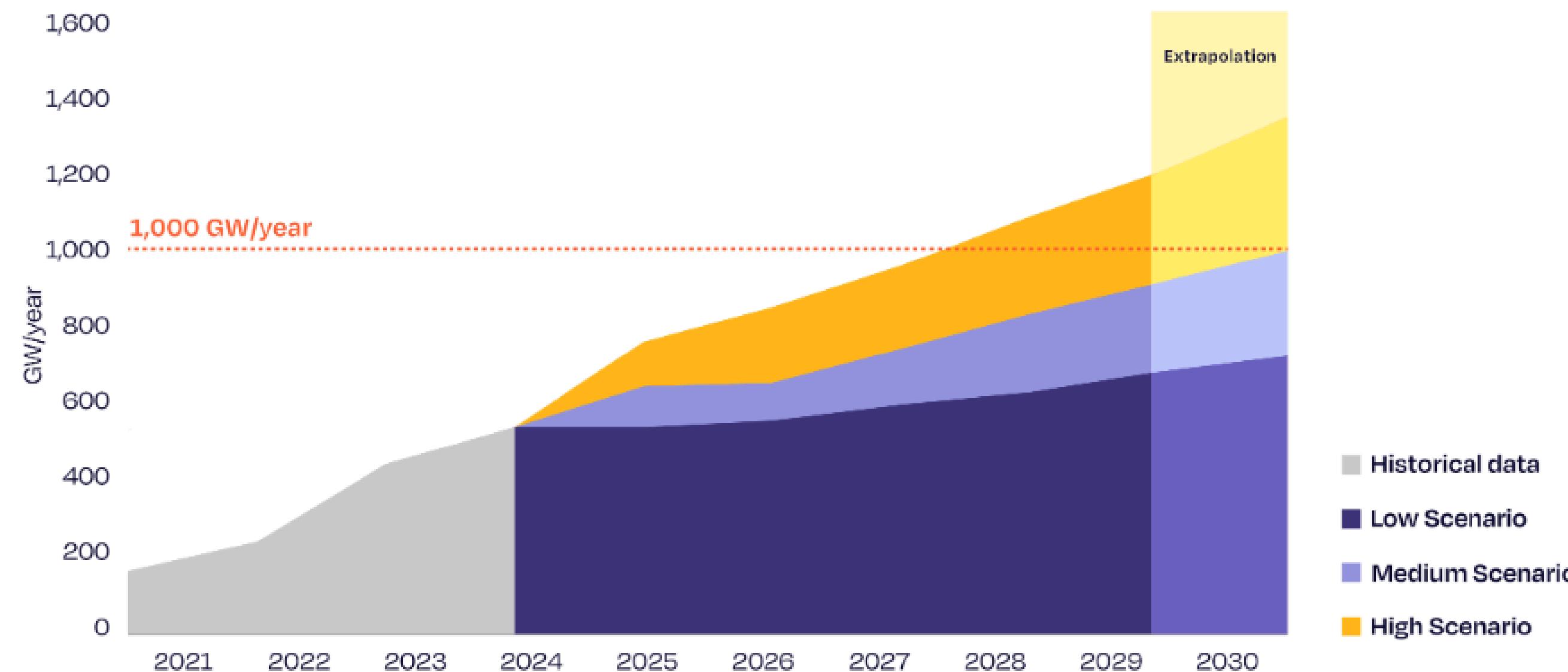


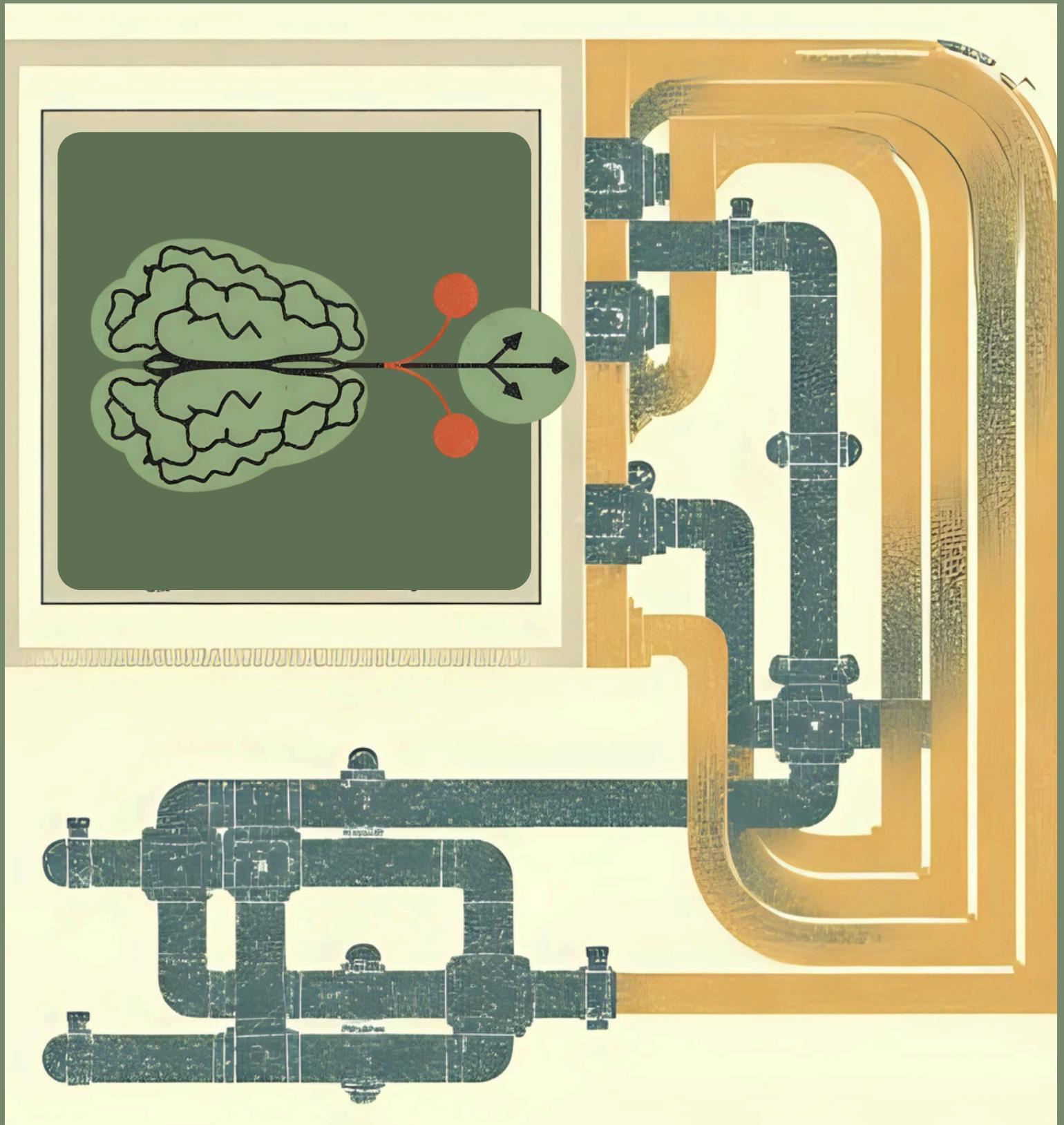
Problem : Gas Demand Swings

Global Trend

Annual TW solar market likely to be reached by 2030

Global cumulative solar PV market scenarios 2025-2030





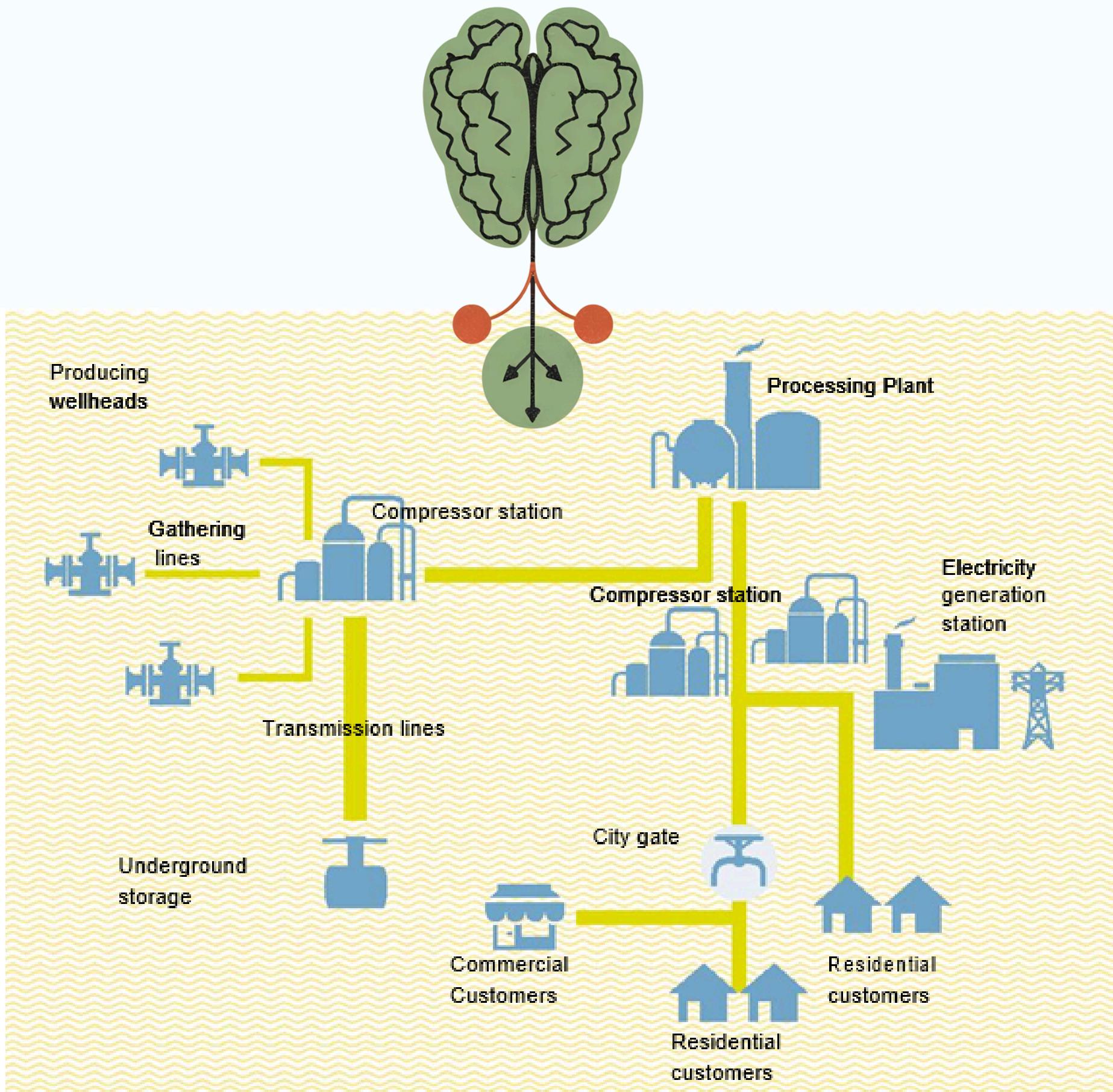
Vision: The Billion-Dollar Opportunity

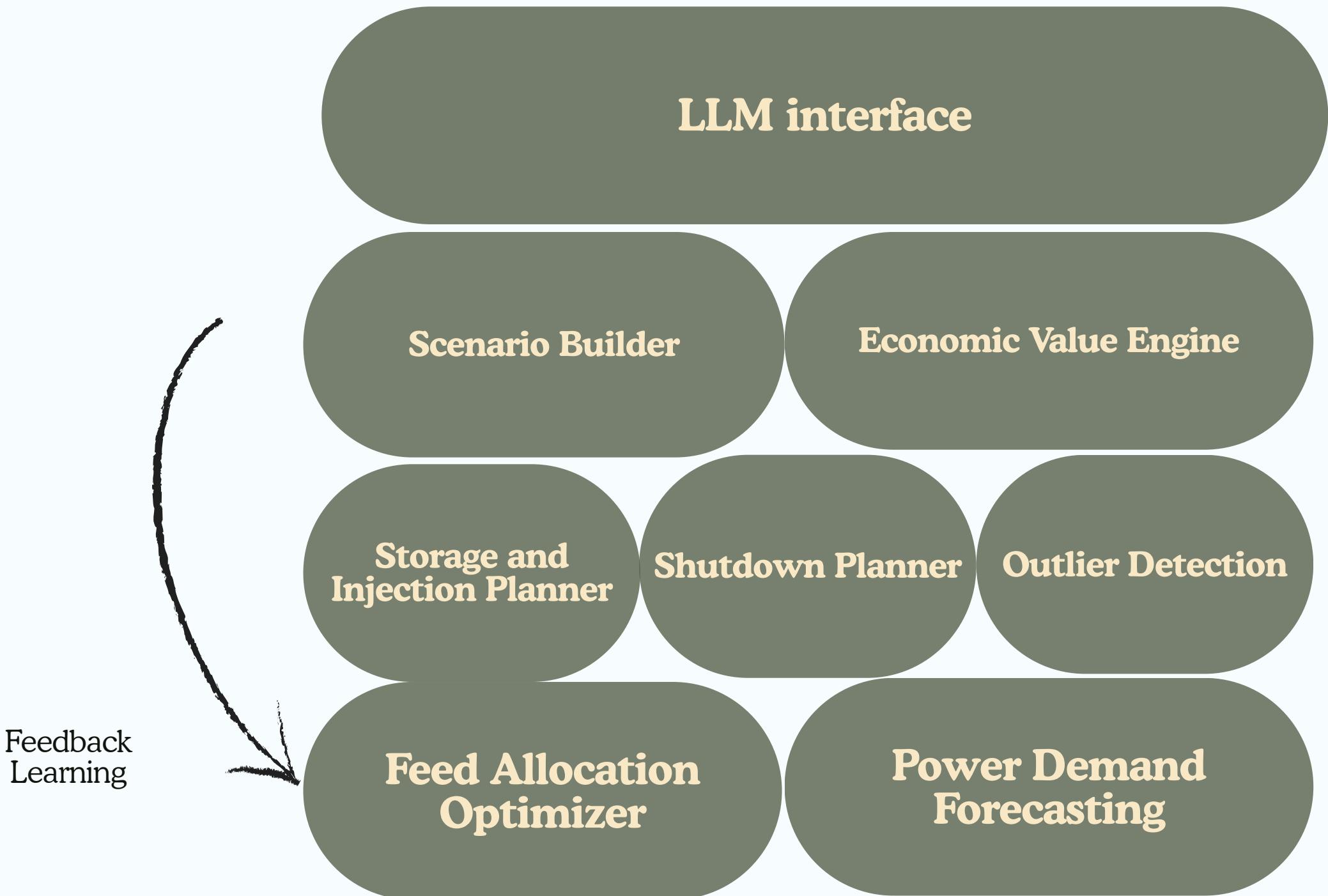
AI Gas Network Brain

Proactively optimize gas flows for a stable
energy future.

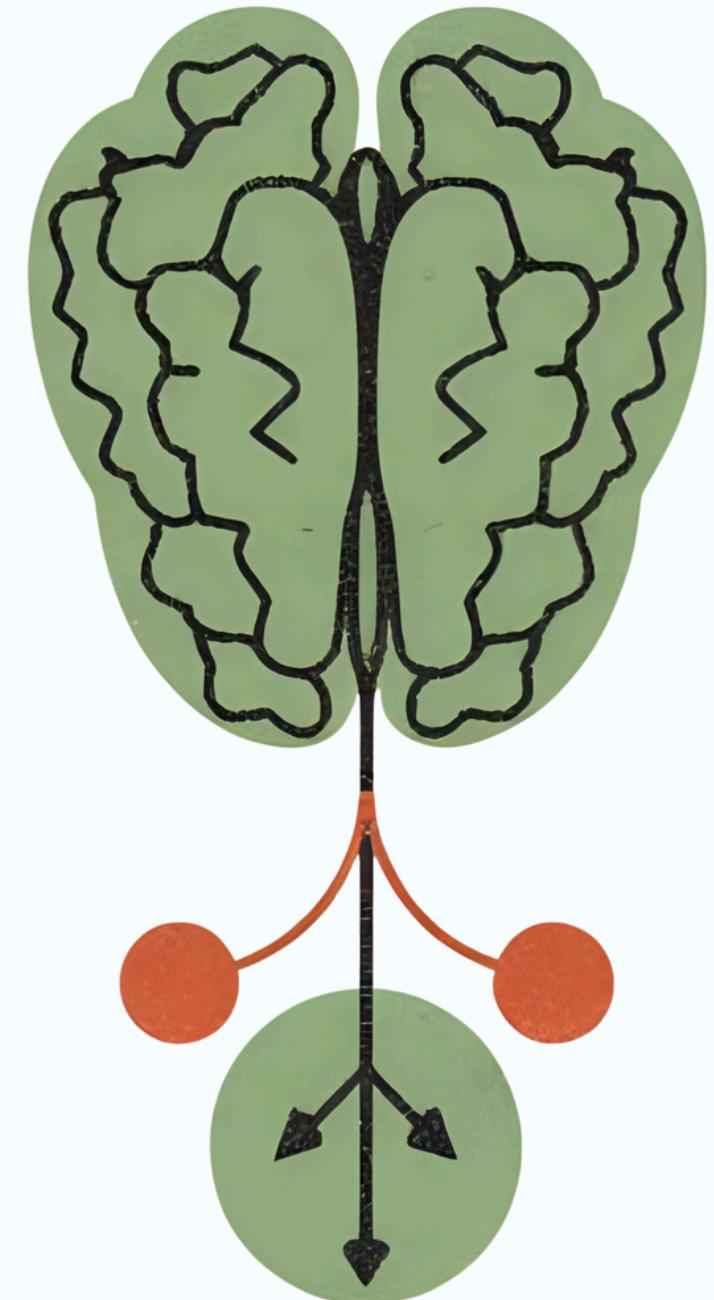
Vision - “AI Gas Brain”

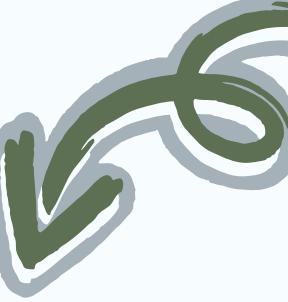
- Integrate power forecasts (solar, grid data) into gas balancing.
- Build AI that anticipates renewable swings and adjusts gas flows.
- Transform national gas networks into self-optimizing systems.





AI Gas Brain Integrated Architecture





Feed Allocation Optimizer

AI Solver

Current State

Feed allocation today depends heavily on business judgment and human expertise at the company scale. While workable, this approach is slow, inconsistent, and leaves profit untapped.



AI-Solution

AI solver layer on top of existing framework, smooth and seem-less optimization. leaving no room for profit leakage or asset under-utilization

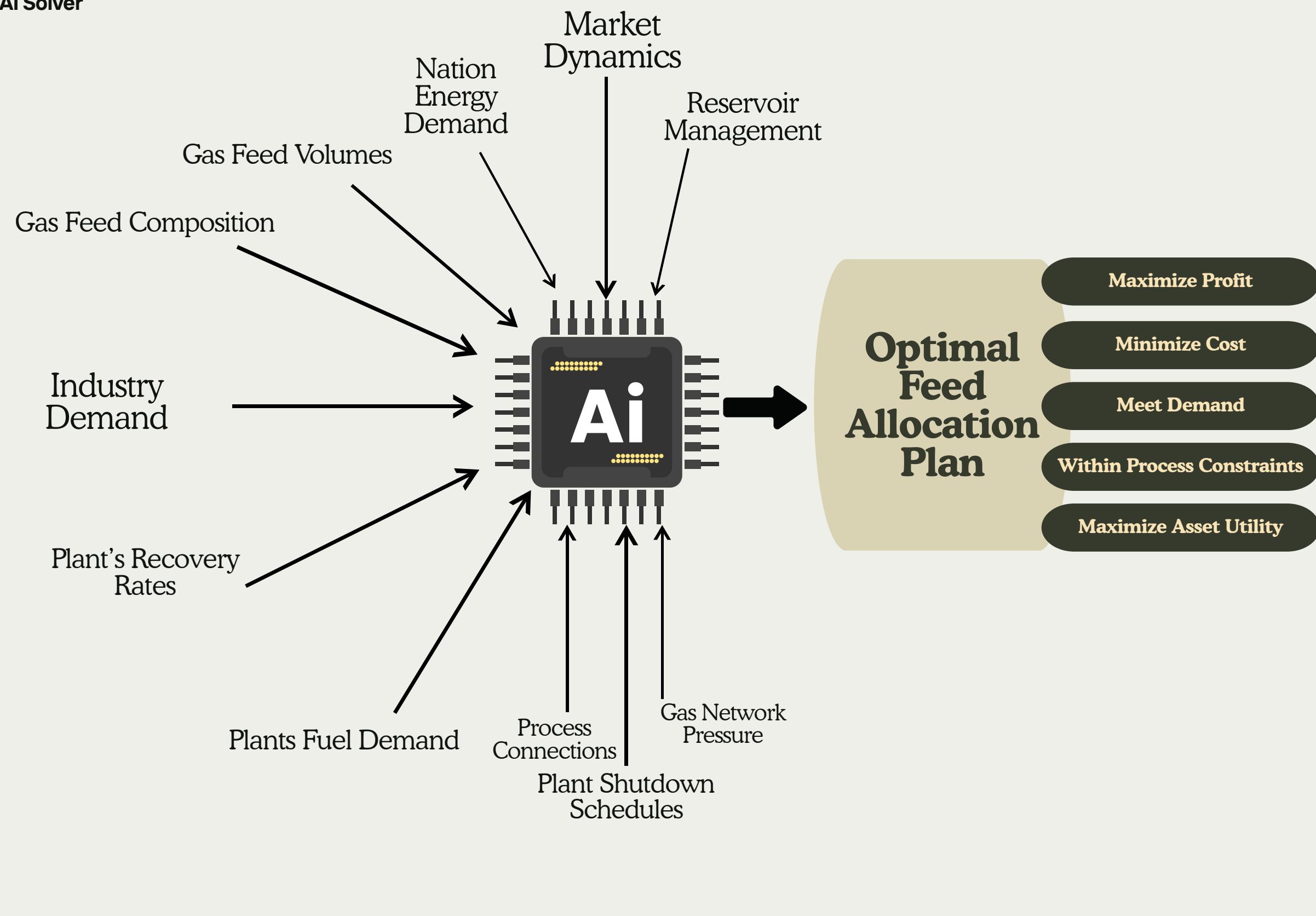


Proof of Concept

A simple AI-based solver I developed internally outperformed manual methods, delivering significant profit improvements and validating the commercial potential.

Feed Allocation Optimizer

AI Solver



Sense of Complexity Scale

ADNOC Gas Relevant Data

- ~3,260 km of gas pipeline
- 34 Gas processing plants
- 10+ Bcf/d processing Capacity

ADNOC Gas product list:

- Sales Gas
- LNG
- LPG
- Ethane
- NGLS
- Naptha Feedstock
- Oxygen, Nitrogen
- Sulphur

Feed Allocation Optimizer

Phase 1

Technical Depth

Data and Scale

Trained on **1,000+ real-world scenarios** covering multiple years of operational data from diverse facilities and feed types.

Utilizes multi-timescale inputs to capture both short-term operational dynamics and long-term planning patterns.

Complexity

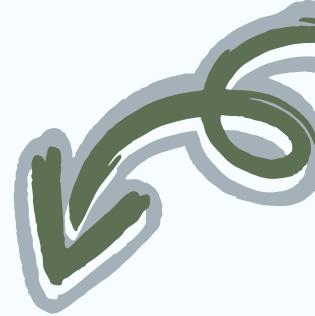
Encode over **1 million parameters** across different processes, yields, technical and commercial constraints. Enabling plant-level and system-level optimization

Incorporates non-linear interactions and constraint coupling, enabling the model to solve problems far beyond the reach of traditional tools.

Expertise Captured

Built using process-engineering logic and expert decision heuristics, embedding decades of operational experience directly into the model's optimization core.

Represents over **30,000+ person-hours** of accumulated oil & gas knowledge, translating human planning expertise into automated, data-driven intelligence.



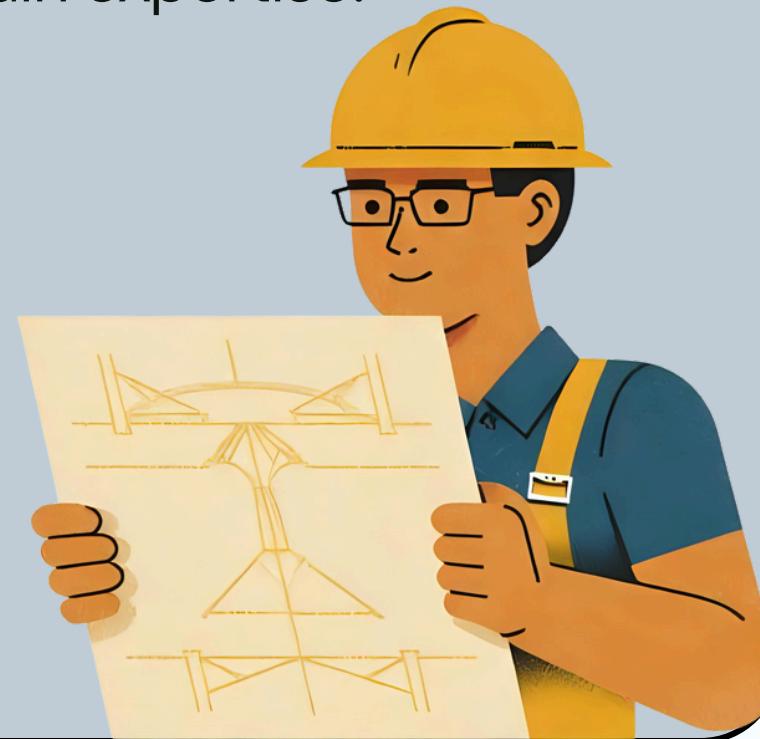
Despite the model's technical complexity, the system is built for seamless integration with existing workflows and tools. because It's designed by someone with extensive firsthand experience using them.

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Market Opportunity

Gap

Commercial solutions lack domain expertise.



Global

National gas networks manage multi-billion-dollar assets still planned manually.



Margins

Small efficiency gains (< 1 %) unlock millions of \$ in revenue.



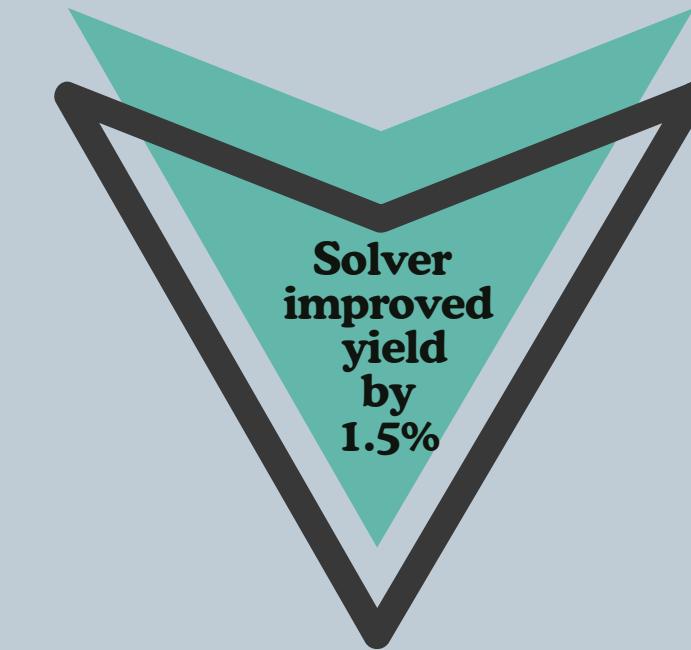
Proven Results

Fact: Last year ~2Billion was generated by manual efforts of similar nature

ADNOC Gas official capacity ~ 10 BSCFD

Solver Revenue Generation Overview

Gas value ~ 20 AED/MMSCF
Gas Processed ~1000 MMSCFD
Average yield 88%
Annual Value 8.03 Billion AED



Average yield 89.5%
Annual Value 8.15 Billion AED

Increase value by 120Million AED

1MMSCFD=1,000,000 standard cubic feet of gas per day , 1 BSCFD = 1000 MMSCFD.

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Competition Landscape

Competitor	Overview	Our Advantage
AIQ	Build Large-scale AI platform for the Energy Sector, focuses on Upstream Business more. Complex scope and long deployment cycles	Focused on gas-network planning + feed optimisation, faster ROI.
External AI Vendors	generic optimization or data tools requiring deep customization. Lack gas-domain knowledge	Domain-specific solver already validated in ADNOC's environment
ADNOC Gas internal initiatives	initiated by IT with an ambitious scope, the program faces slow progress due to limited domain expertise and constrained collaboration from operational teams, making timely deployment unlikely.	Fast, domain-driven, built by the people who understand the gas system, not just the data.
Plant-level Optimizers	Ideally, plant-level optimizers should enhance daily operations within each facility, but in reality their impact remains limited	Beyond single-plant efficiency. network intelligence that optimizes the whole system, not just a site.

Go-to-Market Strategy

1

2

3

4

Proof of Concept

Regional Expansion

Global Scaling

Strategic Partnerships



Launch with ADNOC Gas
for initial validation

Target locally : SNOC
Regional Expansion: Saudi,
Qatar, and Oman.

Establish partnerships for
international market entry

Collaborate with energy
firms for broader adoption
and integration with
national grid

Revenue Generation



One- Time Setup (Integration Fee)
3~5 Million AED

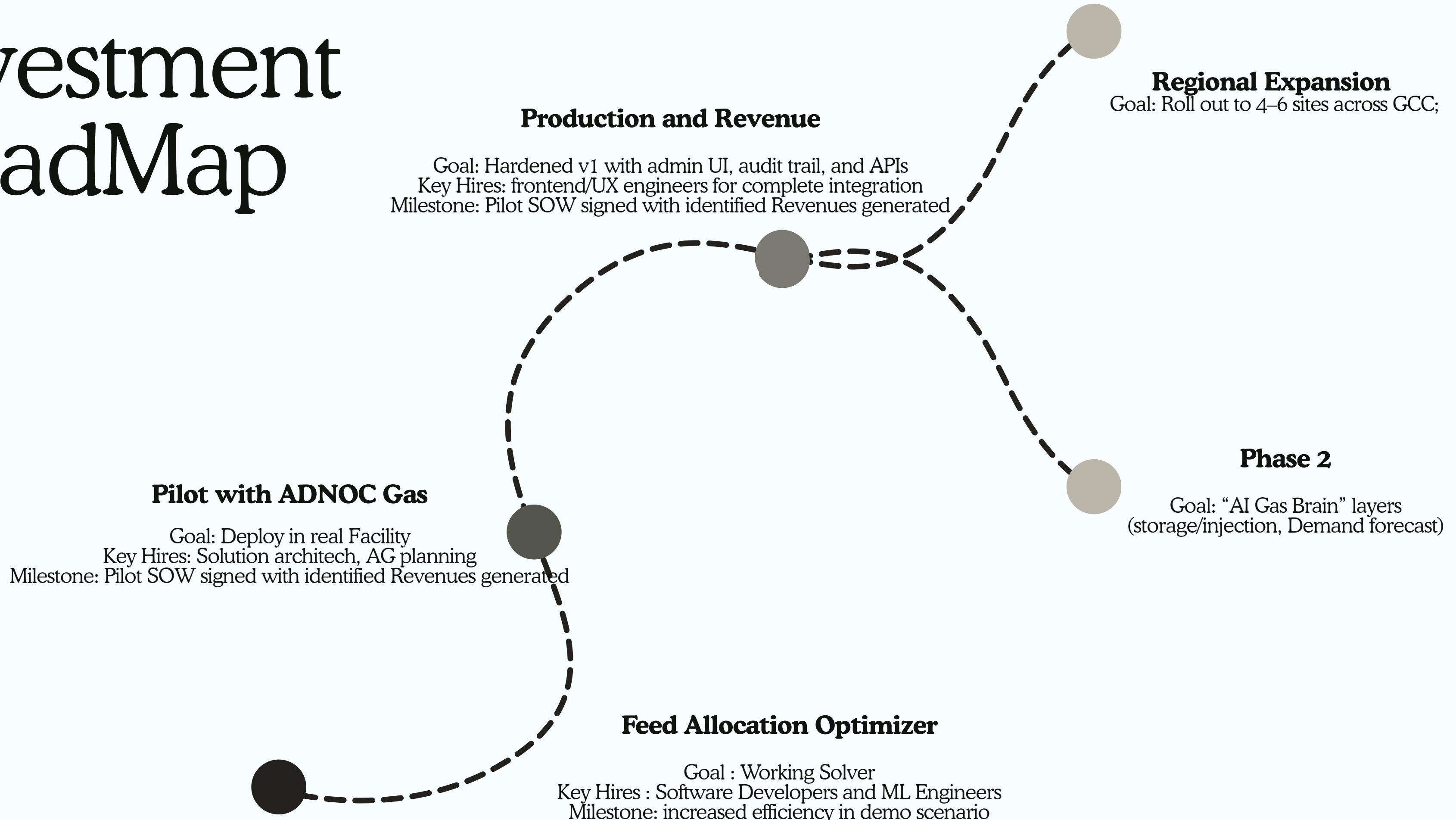


Annual License (SaaS)
1~2 Million AED



Performance Based Upside

Investment RoadMap



The Ask

Seeking 5 Million AED Funding

~12 Months : Talent → Technology → Traction

Hire

Month 0-2

- Build a world-class team of AI engineers and software developers.
- Hire gas process engineers to architect and validate solution viability.
- Partner with universities to explore real-world optimization challenges*.

Sponsor university student research driven by real optimization challenges from the field.*

Develop

Month 2-9

- Build and model the Feed Allocation Optimizer.
- Secure computing power for model training and large-scale deployment.
- Develop SaaS architecture with cloud infrastructure and APIs.
- Enhance UI/UX and visualization tools for intuitive planner interaction.
- Ensure seamless integration with existing systems and workflows.

Deploy

Month 9-12

Launch pilot integration with ADNOC



validate commercial gains



Prepare for regional scaling.



Rames AlJneibi Founder

My unique blend of expertise in gas systems and artificial intelligence positions me to bridge the gap between operations and innovation. building AI that truly understands gas networks.

Credentials

- Bachelor in Chemical Engineering
- Masters in Mathematics
- Masters in Machine Learning
- CFA level 1



Experience

- Senior Specialist
 - ADNOC DMT - Gas and Energy Master Planning Department
- Senior Production Planning Engineer
 - ADNOC Gas Production Planning & Optimization Division
- Process Engineer
 - ADNOC Refining