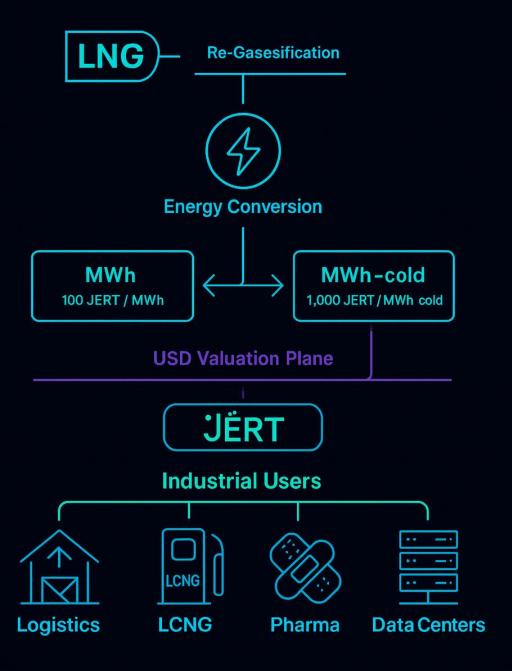
JERT Whitepaper — USD & Dual Energy-Denominated Model **Building the Green Cold Energy Network Across Eurasia** 

# Cryogas Dual Energy Settlement Architecture



JERT - introduces a fully USD-denominated and energy-denominated utility model designed to anchor the token in real industrial demand—energy consumption, coldenergy extraction, and logistics services across Cryogas infrastructure.

### 2. Dual Energy Settlement Model

Cryogas delivers two distinct industrial energy flows:

- Standard Electrical/Thermal Energy (MWh)
- Cryogenic Cold-Energy (MWh-cold) via LNG regasification BTU loops

#### Settlement formulas:

- • 100 JERT = 1 MWh Energy
- 1000 JERT = 1 MWh Cold-Energy

#### 2.1 Definition of MWh-Cold

MWh-cold is a unique industrial metric representing extractable cooling potential from LNG regasification. It is not equivalent to HVAC BTU or refrigeration tonnage. Its scarcity is defined by LNG mass-flow requirements (up to 100 tons per 1 MWh-cold).

#### 3. USD-Denominated Valuation Layer

All pricing and valuation of JERT is expressed in USD for financial clarity across global markets. Energy-denomination determines \*utility\* while USD-denomination determines \*valuation\*. JERT remains a utility token—not a stablecoin—and contains no embedded redemption mechanisms.

#### 4. Infrastructure-Driven Demand

JERT becomes a settlement unit across the Cryogas ecosystem:

- LCNG fueling stations
- Cold-energy storage terminals
- Pharmaceutical and food cold-chain logistics
- Data centers using LNG hybrid cooling
- Heavy warehouses and logistics hubs

# **5. API Energy Layer Integration**

Two new API endpoints support energy settlement:

- GET /energy/rates returns JERT/MWh and JERT/MWh-cold
- GET /energy/convert jert =X returns equivalents for industrial billing

# **6. Smart Contract Architecture Alignment**

Smart contracts remain ERC-20 compliant with no pricing logic. All energy computation is handled off-chain. NatSpec is updated for USD-denomination and industrial use-case alignment.

# 7. Architecture Diagrams

# **Cold Energy Loop Architecture**

