

PROJECT BOOMERANG - TÜRKIYE HOST DEVELOPMENT

Pairing host-country resource and infrastructure with an ARE-controlled strategic-material pathway.

Project Boomerang pairs a Türkiye-based industrial phosphogypsum resource and host infrastructure with a secure, ARE-controlled processing boundary. Authorized Turkish personnel support external feedstock preparation, utilities, site and port operations. Authorized U.S. personnel control the protected processing core and strategic outputs.

DEVELOPMENT BRIEF

A clear division of roles.

Host contribution and project participation are structured around a protected technology boundary.

REFERENCE CONFIGURATION 2 x 40 STPH Nominal processing lines.	CAMPAIGN BASIS 640,000 ST/YR Approx. 580,600 metric tonnes/year.
CAPITAL APPROACH Staged use Aligned to evidence and risk gates.	PROCESS BOUNDARY ARE-controlled Protected architecture and integration.

Reference configuration and campaign basis are planning assumptions, not a final design, vendor guarantee, operating capacity or production forecast.

REQUEST BOOMERANG DILIGENCE

REVIEW DEVELOPMENT GATES

TURKISH HOST SCOPE

Resource + external infrastructure

- Documented resource access and sampling rights
- Suitable land, utilities and bulk-material handling
- External feed preparation and host operations
- Road, rail, port, customs and logistics support
- Local permitting, labor, safety and site services

ARE / AUTHORIZED U.S. SCOPE

Protected core + strategic pathways

- Patriot One Plasma™ IP and protected architecture
- Core process integration and data boundaries
- Authorization and access to confidential know-how
- Protected-core personnel and security protocols
- Strategic outputs and downstream qualification

BOOMERANG PRINCIPLE

Build the host, market and licensed pathways in parallel.

01 - RESOURCE

Prove the feed

Every Turkish host stands on its own representative assay.

02 - SECURITY

Protect the core

Public disclosure remains non-enabling and access-controlled.

03 - PATHWAYS

Authorize each output

Strategic and radiological streams follow approved routes.

04 - SCALE

Advance on evidence

Pilot, qualification, finance and deployment follow closure.

CONTROL ARCHITECTURE

Ownership, operations, equity and technology rights remain distinct.

No one form of participation implies another. Each right, license, access level and control allocation requires an express written agreement.

INTEREST	WHAT IT MAY COVER	WHAT IT DOES NOT AUTOMATICALLY CONVEY
Resource or site rights	Access to host phosphogypsum, land, utilities and external facilities.	Ownership of Patriot One, global technology rights or confidential process access.
Local operating rights	Authorized external feed preparation, utilities, logistics and site functions.	Control of the protected core, strategic outputs or ARE's data boundary.
Project-company equity	An agreed economic interest in a defined project company.	Equity in ARE, ownership of Patriot One or unrestricted know-how rights.
Technology license	Only the field, term, territory and permissions stated in a signed license.	Transfer of underlying ownership, improvements, global rights or trade secrets.
Confidential know-how access	Role-based access expressly authorized for a defined purpose.	General access, onward disclosure, replication rights or technology ownership.

MATERIAL PATHWAY 01

Prospective REE products

Mixed REE-bearing intermediate, mixed rare-earth oxide, separated or grouped oxides, and selected metals or alloys, subject to feed-specific validation and customer qualification.

MATERIAL PATHWAY 02

Separately controlled radiological stream

Project-specific classification, packaging, import, receipt, treatment, recovery, storage and disposition evaluation for uranium-, thorium- and radium-bearing material.

MATERIAL PATHWAY 03

Host mineral pathway

Return of a prospective lower-risk mineral fraction only after project-specific analytical and regulatory qualification.

DEVELOPMENT GATES

01 Authority + NDA Host identity, rights and confidentiality.	➤	02 Representative feed Sampling and independent analytical basis.	➤	03 Compliance screen Site, utilities, logistics, export and ownership.	➤	04 Licensed pathway U.S. classification and recipient basis.	➤	05 Pilot + mass balance Protected engineering and integrated validation.	➤	06 Qualify + deploy Products, recipients, finance and commercial decision.
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FEED-BASIS RULE

Florida working values identify the element suite ARE will test; they are not represented as the composition of any Turkish feedstock. Every host resource will be independently sampled, assayed, validated and qualified.

Engage through the pathway that matches your role.

Submit a Turkish host opportunity. Submit product specifications. Request a controlled-material discussion. Request strategic investor diligence.

Country disclosure describes the approved public host model, not a named host, site commitment, permit, license, financing, offtake or Government endorsement. All participation, access, technology, security and output rights remain subject to screening, written agreements and applicable law.