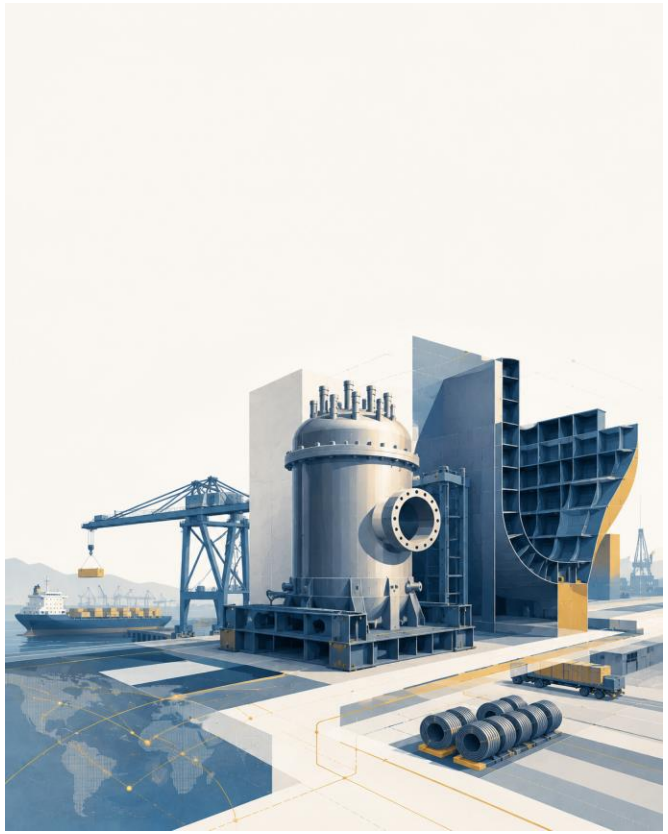
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Greece in the Global SMR Supply Chain

Strategic Positioning, Industrial Potential & GIS Supported Infrastructure Analysis

14 October 2026

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How did we get here?

MSc Thesis research

Policy & Financing Mechanisms for SMR Deployment

→

SMR Deployment Handbook

Policy, Financing, Fuel, Waste Management, & Supply Chains

→

The recurring question

What has to be in place for SMRs to become a real industrial market?

Technology → deployment → industrial ecosystem

SMR deployment requires solving two industrial problems

1 FINANCING & ECONOMICS

Long project horizons
FOAK risk
Uncertain revenue / bankability
Need for public risk sharing

2 SUPPLY CHAIN & QUALIFICATION

Lost nuclear industrial capacity
Qualification takes time
Vendor procurement starts early
Capability ≠ nuclear readiness

Deployment cannot scale without solving both

From nuclear plant to nuclear factory

One-off project

Project-centric delivery

→

Standardised design

Repeatable configuration

→

Series production

Industrial repetition

SMR economics depend on repetition, standardisation and learning

The challenge is moving from FOAK to NOAK

Shipyards offer a useful manufacturing model

SERIAL FABRICATION

Repeatable modules
Controlled processes
Heavy manufacturing

INTEGRATED LOGISTICS

Large components
Port access
Complex supply chains

WORKFORCE & SYSTEMS

Skilled trades
QA/QC discipline
Project interfaces

SMR manufacturing has important similarities with advanced shipbuilding

GREECE ALREADY HAS THE INDUSTRIAL BASE

The challenge is qualification, coordination and connection to the nuclear supply chain.

HEAVY MANUFACTURING
Heavy fabrication
Large metal structures

PRECISION & ENGINEERING
Precision manufacturing
Engineering & specialised fabrication

NUCLEAR-RELEVANT SERVICES
NDT / QA-QC
Inspection & certification capabilities

MARITIME & LOGISTICS
Shipyards & ports
Heavy logistics & transport access

Greece does not need to build an industrial base from zero — it needs to make existing capabilities nuclear-ready and internationally visible.

March 2026 — EU changes the context

EU SMR Strategy – COM/2026 117

SMRs are framed as a shared European industrial project.

SMRs "have the potential to mobilise entire value chains across several EU countries and in different business areas, including engineering, advanced materials and robotics, and to unlock private investment" and that they "can bolster EU research and innovation leadership, create new technological knowledge and skilled jobs as well as long-term export capacity" [COM(2026) 117, p.1]

EUROPEAN SUPPLY CHAIN

Identify gaps + connect suppliers with developers

FLEET APPROACH

Standardisation + modular manufacturing

INDUSTRIAL SCALE

European added value + regional supply chains

What the Strategy actually says

Supply Chain Vision	"A competitive European supply chain should be promoted for securing a high degree of local content and European added value in all SMR projects" [COM(2026) 117, p.5]
Manufacturing Model	"Developing modular manufacturing for SMRs in Europe is essential and should be inspired by other industrial domains such as shipbuilding or passenger aircraft manufacturing" [COM(2026) 117, p.6]
Fleet Approach	"constructing a fleet of SMRs with a consistent design across multiple countries will require industrial standardisation and regulatory cooperation in licensing. Both are essential to reduce construction times and costs through improved production methods and optimised processes across Member States" [COM(2026) 117, p.6]
Southern Neighbourhood	"continue to cooperate with partner countries planning to deploy SMRs in the near term, including candidate and potential candidate countries and partner countries in our Southern neighbourhood" [COM(2026) 117, p.13]
Industrial Ecosystem Conditions	"a European industrial supply chain able to provide a broad spectrum of components for different design options"; creating conditions for a fleet approach enabling series production; and streamlining regulatory processes to enable timely licensing [COM(2026) 117, p.4]


EU SMR STRATEGY ECOSYSTEM
A COMPREHENSIVE ARCHITECTURE TO INDUSTRIALISE SMRS IN EUROPE
Policy + Industry + Finance + Research + International Cooperation
NET-ZERO INDUSTRY ACT (NZIA)
• Strategic projects status for SMR value chains
• Faster permitting and time limits
• Regulatory sandbox & innovation support
• Better access to finance
Faster Delivery • Lower Risk • Investment Friendly
EUROPEAN INDUSTRIAL ALLIANCE ON SMRS
Bringing together industry, SMEs, research and Member States to deliver the Strategy.
Coordination • Matchmaking • Roadmaps
FINANCING & INVESTMENT TOOLS
• InvestEU – de-risking & loans
• Innovation Fund – first-of-a-kind support
• European Investment Bank (EIB)
• National promotional banks
• Blended finance & guarantees
Mobilising Capital • De-risking • Bankability
SMR VALLEYS
• Regional industrial ecosystems for SMR manufacturing
• Facilitate clusters, infrastructure & testing facilities
• Foster local supply chains and skills
• Support via dedicated policy & funding
Regional Growth • Jobs • Industrial Clusters
EU SMR STRATEGY
Accelerating safe, innovative and competitive SMRs through an integrated European ecosystem
RESEARCH, INNOVATION & SKILLS
• Euratom Research & Training Programme
• R&D on safety, materials, fuels & waste
• Digital tools, testing & validation
• Education, training & next-gen skills
Innovation • Safety • Human Capital
SMR COALITION (Member State Platform)
Political coordination and regulatory convergence across Member States.
Regulatory Alignment • Best Practices • Cooperation
INTERNATIONAL COOPERATION
• Southern Neighbourhood engagement
• Alignment with like-minded partners (US, UK, Canada, Japan, etc.)
• Export opportunities for European industry
Global Partnerships • Exports • Geopolitical Impact
ENABLING FRAMEWORKS
• Standardisation & certification
• Safety & regulatory oversight (ENSREG)
• Sustainable finance taxonomy alignment
• Public acceptance & communication
Predictability • Trust • Sustainability
WHAT THE ECOSYSTEM DELIVERS
ENERGY SECURITY & DIVERSIFICATION
Reliable, low-carbon baseload power
DECARBONISATION & CLIMATE GOALS
Supports EU Net-Zero by 2050
INDUSTRIAL COMPETITIVENESS
High-tech jobs, innovation and European leadership
ECONOMIC GROWTH & INVESTMENT
Billions in investments, SME opportunities
STRATEGIC AUTONOMY & RESILIENCE
Strong European supply chains, less external dependencies
INTERNATIONAL LEADERSHIP & COOPERATION
Exporting European solutions and values
ONE STRATEGY. ONE ECOSYSTEM. MANY ENABLERS. ONE GOAL.
Building the foundation for a thriving European SMR industry – safe, innovative, and sustainable.

FIRST / SPRING — the parallel US track

FIRST: Foundational Infrastructure for Responsible Use of Small Modular Reactor Technology

Regulatory assistance
Safety frameworks
Workforce development
Project preparation
Feasibility / financing preparation

SPRING: SMR Pan-Regional Interest Nuclear Group

European / Eurasian fleet deployment
Regulatory & project-management expertise
Regional coordination
US SMR deployment pathway

EU architecture + US engagement create parallel routes into the emerging SMR ecosystem.

What can Greece win from this?

For Greek industry

- New qualified markets
- Higher-value manufacturing
- Nuclear-grade capability
- International vendor relationships
- Exportable services & components

For Greece

- Industrial upgrading
- Skilled employment
- Technology transfer
- Export diversification
- Regional positioning
- Strategic relevance in Europe

The supply-chain opportunity exists even before a domestic reactor decision.

Strategic recommendation #1

Endorse the Declaration to Triple Nuclear Energy by 2050

39 signatory countries: Armenia, Belgium, Brazil, Bulgaria, Canada, China, Croatia, Czech Republic, El Salvador, Finland, France, Ghana, Hungary, Italy, Jamaica, Japan, Kazakhstan, Kenya, Republic of Korea, Kosovo, Moldova, Mongolia, Morocco, Netherlands, Nigeria, Poland, Romania, Republic of Rwanda, Senegal, Slovakia, Slovenia, South Africa, Sweden, Togo, Turkey, Ukraine, United Arab Emirates, United Kingdom, and the United States of America

14 major financial institutions: Abu Dhabi Commercial Bank, Ares Management, Bank of America, Barclays, BNP Paribas, Brookfield, Citi, Credit Agricole CIB, Goldman Sachs, Guggenheim Securities LLC, Morgan Stanley, Rothschild & Co, Segra Capital Management, and Societe Generale

Recognize the importance of promoting resilient supply chains, including of fuel, for safe and secure technologies used by nuclear power plants over their full life cycles

Position Greece clearly within the international nuclear expansion agenda.

SIGNAL

Political commitment
International visibility

ACCESS

Networks
Coalitions
Industrial programmes

CREDIBILITY

Signals seriousness
Supports vendor engagement

Use the international pledge to triple nuclear capacity as a positioning signal

Strategic recommendation #2

Build a coordinated Greek nuclear supply-chain interface.

INDUSTRY

Coordinate capability
Qualification
Market intelligence

GOVERNMENT

Policy framework
Regulatory support
Seed funding

INTERNATIONAL

Vendors
EU institutions
Finance
Partners

Industry-led • Government-supported • Internationally oriented

The Consortium

GNSCC

A proposed industry-led platform to coordinate, represent and promote Greek industrial capabilities in the global SMR supply chain.

MISSION

Qualification • coordination • promotion

MODEL

Non-profit association • lean secretariat

BOUNDARY

Facilitator, not contractor

The Consortium does not replace companies. It makes them easier to find, qualify and engage.

How it connects Greece to the EU & global ecosystem

GREEK BASE

Companies
Shipyards
Engineering
NDT / QA
Manufacturing

GNSCC

Capability Register
ISO 19443 pathway
Vendor engagement
Joint representation
International partnerships

EXTERNAL ECOSYSTEM

EU SMR Strategy
Industrial Alliance
SMR Coalition
FIRST / SPRING
Vendors / EPCs / finance

Capability → qualification → visibility → engagement → contracts

The window of opportunity

THE WINDOW IS OPEN NOW.

The technology ecosystem is forming.

The industrial ecosystem is forming.

Supply-chain positions are being established.

Greece needs to position itself before they are locked in.

Thank you

Discussion

Georgios Papachristos

IENE • October 2026

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