European supply chain in the context of Small Modular Reactor (SMR) deployment

* Required

General Overview

1. Company name *

2. Country *

- 3. Company's turn over (last three years) *
 -) < 3M€
 -) 3M€ 5M€
 - 5M€ 10M€
 - 10M€ 50M€
 - 50M€ 100M€
 - 100M€ 500M€
 -) > 500M€

- 4. Percentage of turn over on Nuclear Business *
 - < 20%
 20% 40%
 40% 60%
 - 60% 80%
 - 80% 100%

5. Percentage of turn over on R&D *

- < 20%
- 20% 40%
- 40% 60%
- 60% 80%
- 80% 100%

6. Number of employees *

- < 50
- 50 100
-) 100 500
- 500 1000
-) 1000 5000
- > 5000

7. Number of production units and their locations *

8. Product sectors *

Decommissioning and Waste Management (including off-gas systems)
Heavy manufacturing components (including pressure retaining components, heat exchangers, forgings)
HVAC
I&C components and systems
Electrical components and systems (including power distribution)
Testing and monitoring systems
Civil works and metallic structures
Remote handling (including cranes, handling machines)
Generator / Turbo-generator
Rotating machines (e.g., pumps, blowers)
Valves
Other mechanical components
Water Treatment
Pipework / Supports / Welding
Logistics / Transport
Other

9. Main nuclear components, systems and/or services provided *

10. Number and list of customers in the Nuclear Sector *

11. Specific references



Capability

12. Nuclear technologies for which you have provided products and/or services

PWR - Pressurised Water Reactor
BWR - Boiling Water Reactor
LFR - Lead Fast Reactor
SFR - Sodium Fast Reactor
HTGR - High Temperature Gas Reactor
Fusion Reactor
Fuel Cycle Facilities
Naval Reactors
Other

13. Nuclear-specific internal design expertise



14. Availability of internal expertise for installation, commissioning and testing of own products (or supervision of these activities)

Installation	
Comissioning	
Testing	
Other	

- 15. Capability to provide maintenance services after delivery of own products and/or systems (please detail the kind of services in the next question)
 - Available for LTSA (Long Term Service Agreements)
 - Limited to defect liability period (or warranty period)
 - On demand for specific cases
 - Not available
- 16. Please detail the kind of maintenance services you are able to provide.

17. Experience in the use of Nuclear Quality Systems and in the application of Codes & Standard (C&S)

ASME
RCC-M
КТА
IEEE
RCC-E
IEC
RCC-CW
Other

- 18. Reconciliation capability: are your products supplied in accordance to a certain C&S easily qualifiable for different C&S? (describe in the next question)
 - Yes, easily



- Very difficult
- 19. Please provide more detail on your reconciliation capability, including the different C&S you are able to reconcile.

- 20. Is your actual level of production process automation and digitalization sufficient to provide adequate foreseeable increase of production at an adequate quality level or do you need specific investment in this area?
 - Modest level, significant investment needed
 - Basic level, moderate investment needed
 - Good level, slight investment needed
 - Excellent level, no significant investment needed
- 21. Please describe the investments you would need to do to adequately automate and digitalize your production processes.

22. Enabling technologies implemented within your organization or which you are intending to implement (please select the categories and specify the context of implementation for SMR in the next question)

IoT
Big Data Analytics
Additive Manufacturing
Cybersecurity
Machine Learning
Autonomous Robotics
Augmented Reality
Other

23. Please specify the context for the implementation of the technologies mentioned above for the SMR.

24. Specific experience and needs, if any, in Advanced Manufacturing

- 25. Does your organization have experience in building information modelling (BIM)?
 - Yes, we are BIM certified
 - Yes, but not certified
 - No significant experience

Capacity

- 26. Actual production capacity (components/systems delivered per year)
 - < 5
 5 10
 10 50
 50 100
 100 500
 > 500
- 27. Can your current production capacity be readily expanded due to likely increasing demand from the nuclear power market?
 -) Yes
 - 🔵 No
 - 🔵 Maybe
- 28. If you answered "Yes" to question 27, please indicate which is your present production range, that could be diverted towards nuclear production (please consider typical nuclear requirements such as environmental and seismic qualification, certification of materials etc.)

29. If you answered "No" to question 27, please indicate which could be your strategy (i.e. necessary investments, dedicated factory, needed workforce other)

30. Logistic challenges, if any, to face an open European SMR market (transportation, others)

31. Supply challenges you anticipate considering the actual global market (availability of raw materials, semi-products, specific hi-tech components, etc.)

32. Considering your product/system characteristics and required testing in accordance to C&S, in which areas may you anticipate the need for investments to enable/enhance factory preassembling and integral testing, aimed at reducing site erection schedule?



Additional Comment

33. Please feel free to add anything you think might be relevant for this survey.

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