**7. General considerations on needed infrastructure**

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General considerations for the preparation of the infrastructure development plan, including communication, energy, transport, and water conservancy reconstruction are set out. There is a growing interest from countries to utilise nuclear fusion for electricity generation. The International Atomic. Energy Agency (IAEA) has developed two methodologies, namely, the IAEA Milestone Approach and the International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) Methodology to help its Member States in assessing the viability of nuclear power programme (NPP) and nuclear energy system. This section highlights important features of both methodologies in supporting deployment of nuclear power programme for new technologies. In summary, the IAEA Milestone Approach focuses for near term while the INPRO Methodology focuses for long term assessment to support the deployment of first fusion reactors. Depending on resources, both methodologies can be performed either separately or simultaneously. The Milestones Approach provides requirements for the basic elements and support activities for design, construction and operations.

This paper will focus on comparing requirements necessary infrastructure for different technologies, specifically commercially operating fission reactors versus typical nuclear fusion reactors. The comparison will identify the similarities and differences; and, identify where actions may be needed to address the differences.