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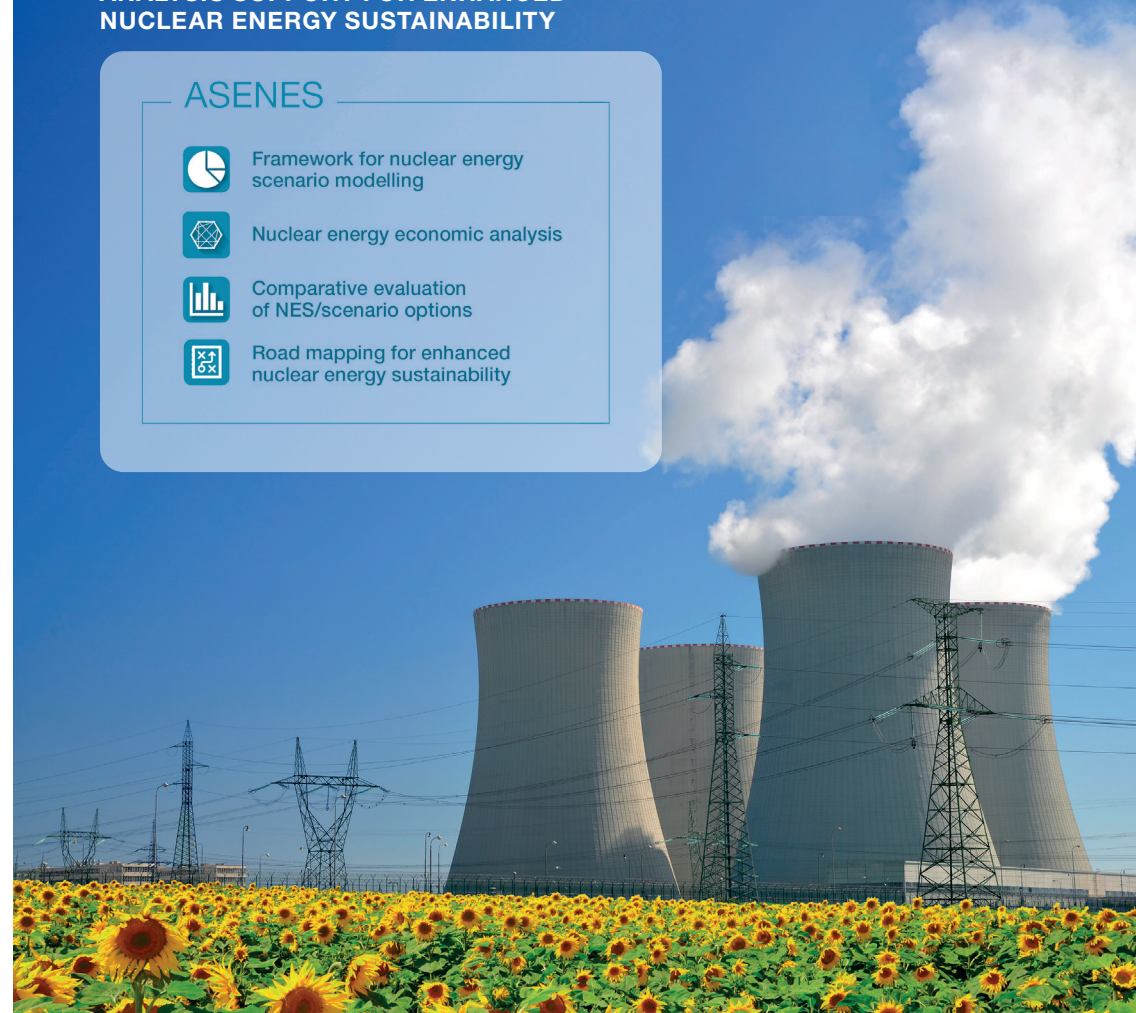
# INPRO publications

## ANALYSIS

### ANALYSIS SUPPORT FOR ENHANCED NUCLEAR ENERGY SUSTAINABILITY

#### ASENES

-  Framework for nuclear energy scenario modelling
-  Nuclear energy economic analysis
-  Comparative evaluation of NES/scenario options
-  Road mapping for enhanced nuclear energy sustainability

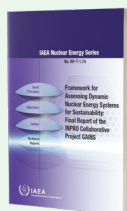


**“Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs”.<sup>1</sup>**

<sup>1</sup>The United Nations World Commission on Environment and Development

The concept of sustainable development embraces all environmentally sensitive areas of human activity, including different types of energy production. Sustainable development in nuclear energy focuses on solving key institutional and technological issues including nuclear accident risks, health and environment risks, proliferation risks, economic competitiveness, radioactive waste disposal, sufficiency of institutions and public acceptability. Multiple options exist to ensure sustainable development of nuclear energy through both, innovations in nuclear energy technology and collaboration among countries facilitating the whole achieving more than the parts. The IAEA has developed an analytical framework and tools to model, analyse and compare nuclear energy systems and scenarios with different reactor and fuel cycle options in various countries allowing them to consider nuclear trade among countries in any front-end or back-end fuel cycle stages. The framework, methods and tools are currently being offered as an integrated INPRO service to Member States titled “Analysis support for enhanced nuclear energy sustainability” (ASENES).

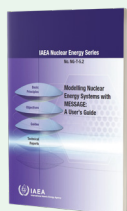
## Publications



### **Framework for Assessing Dynamic Nuclear Energy Systems for Sustainability: Final Report of the INPRO Collaborative Project GAINS**

**IAEA Nuclear Energy Series No. NP-T-1.14**

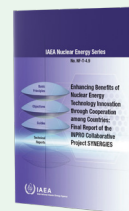
(253 pp., 233 figs; 2013) • ISBN 978-92-0-140410-7 • STI/PUB/1598 • €40.00



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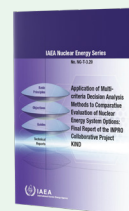
(126 pp., 110 figs; 2016) • ISBN 978-92-0-109715-6 • STI/PUB/1718 • €39.00



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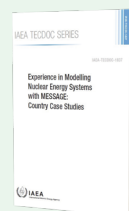
(341 pp., 227 figs; 2018) • ISBN 978-92-0-101118-3 • STI/PUB/1807 • €66.00



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**IAEA Nuclear Energy Series No. NG-T-3.20**

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## News

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(Forthcoming)

### **Developing Roadmaps to Enhance Nuclear Energy Sustainability: Final Report of the INPRO Collaborative Project ROADMAPS**

**IAEA Nuclear Energy Series No. NG-T-3.22**

(Forthcoming)

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**Analysis Support for Enhanced Nuclear Energy Sustainability**

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