

Demand and Capacity

Projection 2022-2027

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**US DoE NNSA Mo-99 Stakeholder Meeting
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- An introduction
 - My name is Kevin Charlton, I was an analyst for the OECD-NEA NTE Division from 2014 until 2019
 - I am a specialist in Medical Radioisotopes and worked in the field continuously from 1977
 - Previously worked for TRC/Amersham International/GE, Amerscare, Mallinckrodt/Covidium/Curium and NRG, but have no continuing affiliations with any organisations
 - 2014 to 2019 I was Secretariat of the OECD-NEA High Level Group on the security of supply of Medical Radioisotopes (HLG-MR)
 - Earlier a delegate representing NRG/HFR and the Dutch government from the inception of the of the HLG-MR until joining the OECD-NEA

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- Following the HLG-MR 4th Mandate that ended in 2019
 - The OECD-NEA retained some commitments to monitoring MR supply
 - New - The OECD-NEA has recently established a Contract with Kevin Charlton to research and write a report to update on the global Mo-99 Demand and Capacity status for the period from 2022 to 2027
- The so-called 2022 Mo-99 Demand and Capacity projection will be
 - Structured in a similar way to NEA/SEN/HLGMR(2019)1 the Mo-99 Demand and Capacity report published by the NEA in November 2019
 - Will consider the period 2022 to 2027 inclusive
 - Publication envisaged by late 2022; publication decision will be the NEA's

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- Following establishment of the contract
 - The OECD-NEA has provided me with dedicated equipment
 - And re-established my old NEA email account kevin.charlton@oecd-nea.org which will be used for all correspondence during the project
- All work on the 2022 Demand and Capacity projection report will be performed from behind the NEA firewalls, using their security systems
 - All aspects of confidentiality, data protection and intellectual property rights will be maintained so as if I still worked for the NEA both during and after the contract
- Any questions about the contract can be directed to Vladislav Sozoniuk vladislav.sozoniuk@oecd-nea.org

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- 2022 is an interesting time point to conduct an update of Mo-99 Demand and Capacity
 - Three years have elapsed since the preceding study, allowing a substantial block of time for potential new facilities and technologies to progress
 - In 2020 and 2021 the Covid-19 pandemic provided previously unimagined new challenges to healthcare systems and to international distribution
 - These new challenges were experienced at different intensities and at different times as the pandemic waves ebbed and flowed around the globe

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- An initial phase of data collection from Irradiators and Processors has already been initiated
 - There will be a primary analysis of this data
- A review of both present and planned potential suppliers likely to be operational in the Mo-99/Tc99m supply chain by 2027 is ongoing
 - A summary of this data will be shared for general review and comment
- A first draft report is envisaged by summer 2022
 - Survey participants and former HLG-MR delegates will be invited to review and comment on the first draft
 - Further redrafting and review will continue into the Fall

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- The success of the 2022 Demand and Capacity study will be dependent upon the cooperation of the members of the supply chain and interested governments
 - Market participants will be contacted at the time point most appropriate for their contribution, however,
 - If you believe that you or your organisation are outside of the historical HLG-MR communications channels and/or feel that you have additional or new information to share that is relevant to the study period, then please identify that by sending an email to kevin.charlton@oecd-nea.org
 - We look forward to the invaluable support of the Medical Radioisotopes community and to sharing the results of the study as the project progresses

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- Thank you for your attention, I will be happy to take any questions from the floor.

Contact details kevin.charlton@oecd-nea.org