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Title: Economic analysis: On-site or centralized interim storage. Spent nuclear fuel management strategy in Spain.

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Abstract: (up to 250 Words)

Nuclear waste is one of the key issues regarding nuclear energy around the world. Therefore, it is essential to have a well-implemented strategy for spent nuclear fuel. However, despite having already decided to implement a direct disposal strategy, decision-makers in Spain have been indecisive about whether to construct a centralized interim storage or not. Thus, the main purpose of this paper is to analyze the economic aspect of two alternatives for this matter: the construction of a centralized interim storage, as was planned in the VI General Plan of Radioactive Waste of 2006, or to store spent nuclear fuel at the on-site dry interim storage facilities of each nuclear power plant until the final repository is available, which would require the enlargement of some of these facilities and the construction of new ones.

The results show that the centralized interim storage option is less economically attractive than the on-site interim storage facilities alternative.

Biography (up to 100 words):

B. Yolanda Moratilla Soria graduated in Industrial Engineer from the Pontifical Comillas University in 1983. In the year 2000, she obtained her PhD with a « cum laude » distinction. Since 2013, she holds a degree in ecclesiastical studies.

Yolanda Moratilla is the director of the Rafael Mariño Chair of New Energy Technologies. She is also the president of the Energy and Natural Resources Committee at the Institute of Engineering of Spain and, since 2016, she is a permanent member of the Royal Academy of Doctors of Spain.

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