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**NUCLEAR ENERGY AGENCY  
COMMITTEE FOR TECHNICAL AND ECONOMIC STUDIES ON NUCLEAR  
ENERGY DEVELOPMENT AND FUEL CYCLE**

**Mandate - Ad hoc Expert Group on Reducing the Costs of Nuclear Power  
Generation (REDCOST)**

**Activity 4.6 NDC (PoW 2017-2018)**

Document submitted for approval under the written procedure.

If no comments are received by the Secretariat by 22 January 2018, the proposed new mandate will be considered as approved on that date.

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## Ad hoc Expert Group on Reducing the Costs of Nuclear Power Generation (REDCOST)

<b>Members:</b>	All NEA member countries
<b>Full Participant:</b>	European Commission <i>Under the NEA Statute</i>
<b>Participant(s):</b>	
<b>Observer(s) (international organisations)</b>	International Atomic Energy Agency (IAEA) <i>By agreement</i>
<b>Date of creation:</b>	1 April 2018
<b>End of mandate:</b>	30 March 2020

### Mandate (Document reference):

- NDC - Final Programme of Work for 2017-2018 [[NEA/NDC\(2017\)1](#)]
- Minutes of 67<sup>th</sup> meeting of the Committee for Technical and Economic Studies on Nuclear Energy Development and Fuel Cycle [[NEA/NDC/M\(2016\)2/FINAL](#)]

### Mandate

#### Mission and objectives

The objective of the report is to study the potential for nuclear costs reductions in the future. The study will primarily focus on new nuclear construction but could also look at potentials for reducing the operating costs of existing plants if sufficient data is available. This will include looking at broad evolutions and good practices in terms of (i) industrial structure, (ii) market competition and (iii) supply chain arrangements as well as how (iv) reactor design (and innovation) and construction workflow management (in relation with suppliers and Safety Authorities) could lead to further costs reductions. The role of (v) safety regulation and (vi) fiscal rules could also be investigated.

From a policy perspective, a useful output of this study could be to highlight the present efforts on-going in this area, the necessary conditions and order of magnitude of costs reductions, and the time horizon when this could take place.

#### Working methods (organisational structure and mode of operation and co-operation)

This task will be undertaken with the assistance of an expert group, and overseen by the WPNE. Members of the expert group will be nominated by the members of the Committee for Technical and Economic Studies on Nuclear Energy Development and Fuel Cycle (NDC). In addition, this study could build on on-going initiatives on costs reductions, such as the initiative led by the Nuclear Energy Institute (NEI) on operation costs, which may be used as case studies. Recent reports from the NEA will also be relevant (for example, the 2015 report *Nuclear New Build: Insights into Financing and Project Management*).

Nominated experts will meet on a regular basis (approximately twice a year) to:

- Discuss and define the detailed programme of work;
- Present countries' contributions;
- Carry out the study.

**Deliverables**

The Ad hoc expert group will produce a report with the support of the Secretariat.