

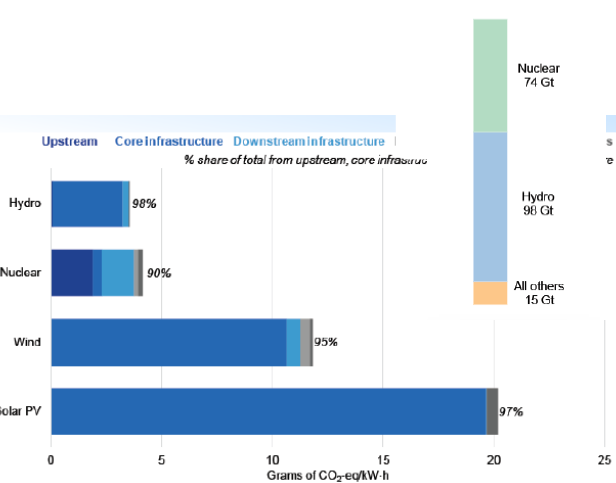
## Role of Nuclear Energy in Reducing CO<sub>2</sub> Emissions



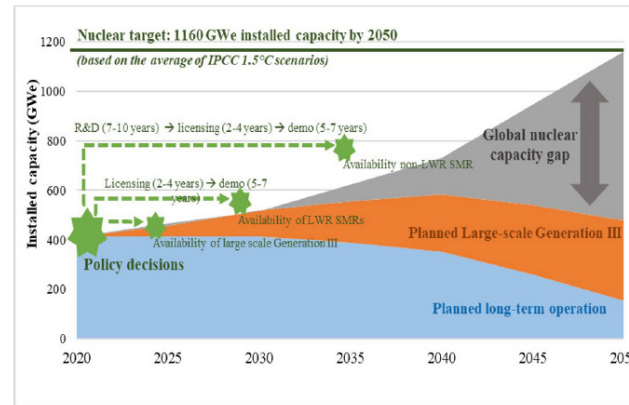
Your presenters:  
 Dr. Shannon Bragg-Sitton, INEL  
 Mr. Huang Wei, IAEA  
 Ms Diane Cameron, NEA

Your moderators:  
 Dr. Patricia Paviet, PNNL  
 Dr. Tatjana Jevremovic, IAEA

Cumulative avoided emissions, 1971-2018



Ref. webinar slide p.33



Source: NEA (forthcoming).

Ref. webinar slide p.21

**Nine Mile Point NPP LTE/PEM** (Late 2022)

**Davis-Besse NPP LTE-PEM** (2023/24)

**Thermal & Electrical Integration at an Xcel Energy NPP HTSE/SOEC**

**Palo Verde Generating Station, H<sub>2</sub> Production for Combustion and Synthetic Fuels**

**Many different options under evaluation**

**Our recent SMR white paper**

**What is the best solution?**

Ref. webinar slide p.58, 68

Principal Facts shown by IAEA (74Gt contribution, etc.)

Vision shown by NEA (1130GWe/2050 scenario =87Gt contribution + NEaNH)

US NEaNH solution and other solutions based on geographical condition by INEL, NEaNH-TF