

MISSION: To unlock the global potential of nuclear power by transforming today's existing reactors into advanced reactors of tomorrow using Clean Core's revolutionary ANEEL Fuel

TODAY: Nuclear power provides carbon-free, baseload energy globally with the potential to accelerate decarbonization by lowering system level costs and ensuring energy security for industrialized and developing countries

TOMORROW: Clean Core's ANEEL fuel is optimized for the CANDU/PHWR system, a proven fleet of reactors with decades of impeccable safety, the easiest supply chain to update and the potential to be exported to emerging countries at scale

However, nuclear has faced challenges to achieve widespread deployment

With no reactor modifications necessary, ANEEL fuel will rapidly address nuclear's challenges

Financial and
Regulatory
Barriers

Proliferation
Concerns

Waste
Management
Concerns

~7x

Increased
Fuel Burnup

~10%

Operating Cost
Reduction

87.5%

Waste
Reduction

The industry and new technologies has not addressed these challenges

Proliferation Resistant & Accident Tolerant Fuel

The ANEEL Fuel Technology: A proprietary blend of Thorium (Th) and High Assay Low Enriched Uranium (HALEU) designed for existing and new PHWR designs from Canada and India



**Clean Core
founded in 2017**

Test fuel pellets
fabricated



Irradiation
testing begins



**Commercialization
in 2025**

2022

2023

2024

2025

Centrus Energy
HALEU
partnership



SNCL, Bruce Power, CNSC licensing
& fuel fabrication partnerships



Post-Irradiation Examination &
Fuel Qualification at INL

MARKET OPPORTUNITY:

Clean Core's ANEEL fuel offers immense potential to upgrade the existing PHWR design. After initial adoption, Clean Core will catalyze a new fleet of advanced PHWR reactors for countries eager for a nuclear energy program of their own

EXPERIENCED TEAM:

Mehul Shah Founder and CEO, Clean Core

Dr. Anil Kakodkar Former Chairman, Indian AEC

Dr. Michael Binder Former President, CNSC

Dr. Paul Chan Former CNS Chair, CANDU Fuel Expert



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existing PHWR
reactors

30

countries
planning nuclear

20

countries interested
in nuclear

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