

# What Is A Lftr And How Can A Reactor Be So Safe Molten Salt Reactors Including Liquid Fluoride Thorium Reactors

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## What Is A Lftr And

The liquid fluoride thorium reactor (LFTR; often pronounced lifter) is a type of molten salt reactor. LFTRs use the thorium fuel cycle with a fluoride-based, molten, liquid salt for fuel. In a typical design, the liquid is pumped between a critical core and an external heat exchanger where the heat is transferred to a nonradioactive secondary salt. The secondary salt then transfers its heat to a ...

## Liquid fluoride thorium reactor - Wikipedia

Flibe Energy is pursuing a design called a liquid-fluoride thorium reactor (LFTR), which is a modern variant of the work initiated at Oak Ridge during their research into molten-salt reactors. Other companies have also formed since 2011 to pursue molten-salt reactors, but their designs have not incorporated the thorium fuel cycle, relying instead on enriched uranium.

## LFTR Overview - Energy From Thorium

LFTR stands for liquid thorium fluoride reactor and is pronounced "lifter." This type of nuclear power is generated from Thorium. Thorium is nearly as abundant as lead in the earth's crust, making it a very common metal. LFTR reactors use thorium dissolved into liquid form coupled with salts as a fuel source.

## What Is LFTR? The Safe Nuclear Energy | ASTOUNDE.com

A Molten Salt Reactor, such as Liquid Fluoride Thorium Reactor (LFTR, pronounced "lifter") produces energy using a liquid (molten) nuclear fuel, not a solid fuel. MSR's also use a coolant that remains liquid at atmospheric pressure.

## LFTR - A Nuclear Reactor That Can't Melt Down? No High ...

What does LFTR stand for in text In sum, LFTR is an acronym or abbreviation word that is defined in simple language. This page illustrates how LFTR is used in messaging and chat forums, in addition to social networking software like VK, Instagram, Whatsapp, and Snapchat.

## What does LFTR mean? - LFTR Definitions | Abbreviation Finder

A Liquid Fluoride Thorium Reactor (LFTR) is a type of Molten Salt Reactor (MSR) that can use inexpensive Thorium for fuel (thorium becomes uranium inside the reactor). A slightly different type of MSR can consume the uranium/plutonium waste from solid-fueled reactors as fuel.

## LFTR — Liquid Fluoride Thorium Reactor

LFTR is an inherently safe, intrinsically stable and self-regulating design that removes the root causes of today's reactor accidents and the need for complex redundant safety systems.

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## **LFTR - Flibe Energy**

Introduction The liquid-fluoride thorium reactor (LFTR) design by Flibe Energy is a graphite-moderated, thermal-spectrum reactor with solutions of liquid fluoride salts containing both fissile and fertile materials.

## **Status Report - LFTR**

The LFTR is a breeder design and like any breeder reactor, it can be used to create fuel for nuclear weapons in addition to civilian power. One advantage of using the thorium to breed fissile U-233 is that some U-232 is produced along with U-233. [4,5] Any U-233

## **Liquid Fluoride Thorium Reactors**

The question facing the LFTR designer is, which set of compromises works best given design goals. Because the graphite moderated LFTR is highly scalable even without a high breeding ratio, designing the LFTR to produce just one U-233 atom for every fissionable atom burned.

## **What Are The Problems With LFTR Technology? | Energy Central**

LFTR (Liquid Fluoride Thorium Reactor) Defended by Kirk Sorensen @ ThEC2018 - YouTube.

## **LFTR (Liquid Fluoride Thorium Reactor) Defended by Kirk ...**

MSRE was a 7.4 MW th test reactor simulating the neutronic "kernel" of a type of epithermal thorium molten salt breeder reactor called the liquid fluoride thorium reactor (LFTR). The large (expensive) breeding blanket of thorium salt was omitted in favor of neutron measurements.

## **Molten salt reactor - Wikipedia**

A Molten Salt Reactor, such as the Liquid Fluoride Thorium Reactor (LFTR) produces energy using a liquid (molten) nuclear fuel, not a solid fuel. MSRs also use a coolant that remains liquid at atmospheric pressure.

## **Amazon.com: What Is A LFTR, and How Can A Reactor Be So ...**

What is LFTR? There may be more than one meaning of LFTR, so check it out all meanings of LFTR one by one. LFTR definition / LFTR means? The Definition of LFTR is given above so check it out related information. What is the meaning of LFTR? The meaning of the LFTR is also explained earlier. Till now you might have got some idea about the acronym, abbreviation or meaning of LFTR

## **What does LFTR mean? - Studies - Definition and Meaning of ...**

Liquid Fluoride Thorium Reactors (LFTR): Energy for the Future?

## **Liquid Fluoride Thorium Reactors (LFTR): Energy for the ...**

"LFTR - Liquid Fluoride Thorium Reactors".

[https://www.allacronyms.com/LFTR/Liquid\\_Fluoride\\_Thorium\\_Reactors](https://www.allacronyms.com/LFTR/Liquid_Fluoride_Thorium_Reactors) (accessed April 19, 2020). Harvard All Acronyms. 2020.

## **LFTR - Liquid Fluoride Thorium Reactors**

LFTR is the ultimate energy source that will propel humanity away from fossil fuels and into a true nuclear era — the thorium age of sustainable development, energy independence, and exploration of new frontiers.

## **Technology - Flibe Energy**

Alvin Weinberg, who invented both, favored the LFTR for civilian power since its failures (when they happened) were considerably less dramatic — a catastrophic depressurization of radioactive ...

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