

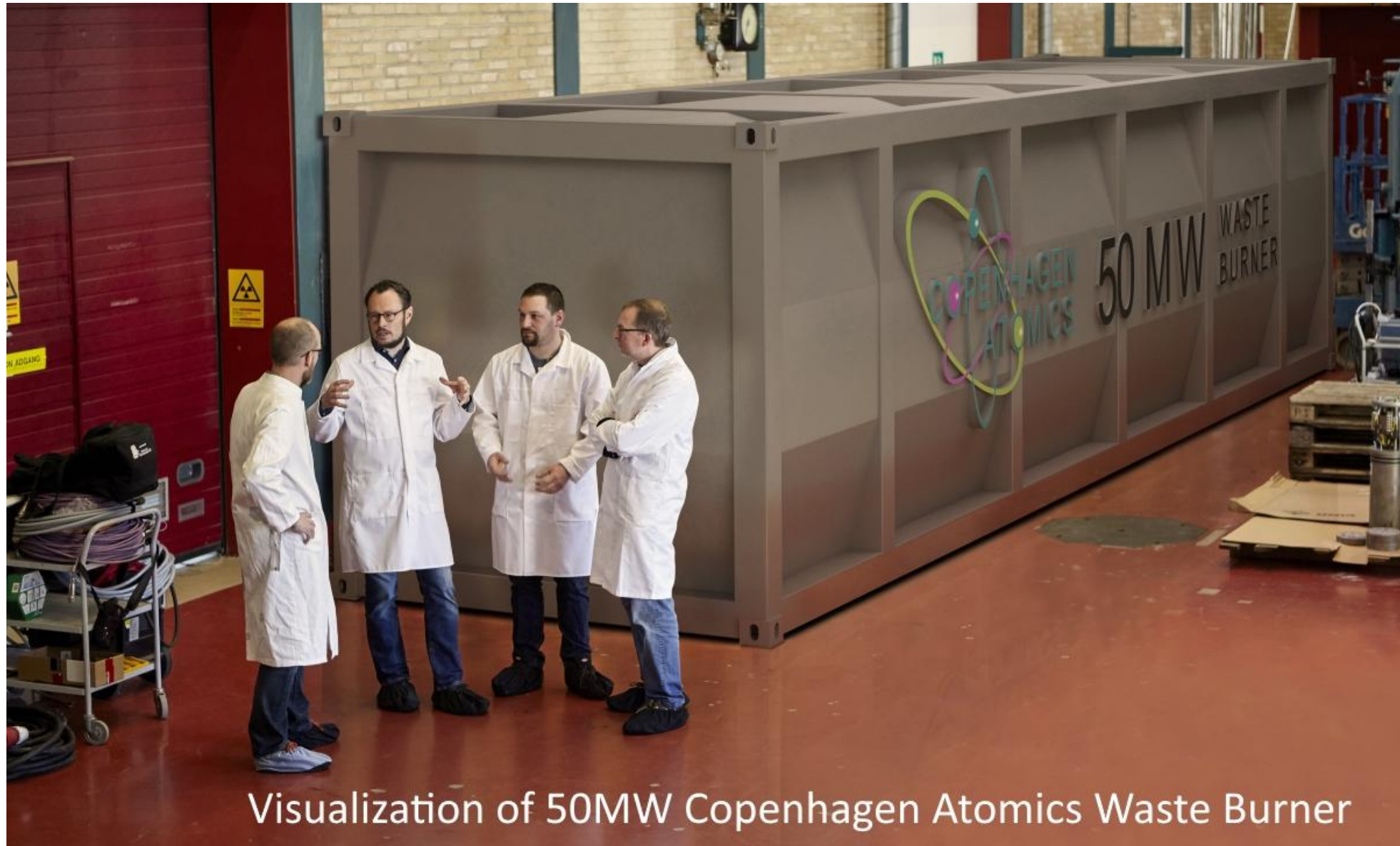


copenhagen  
atomics

At

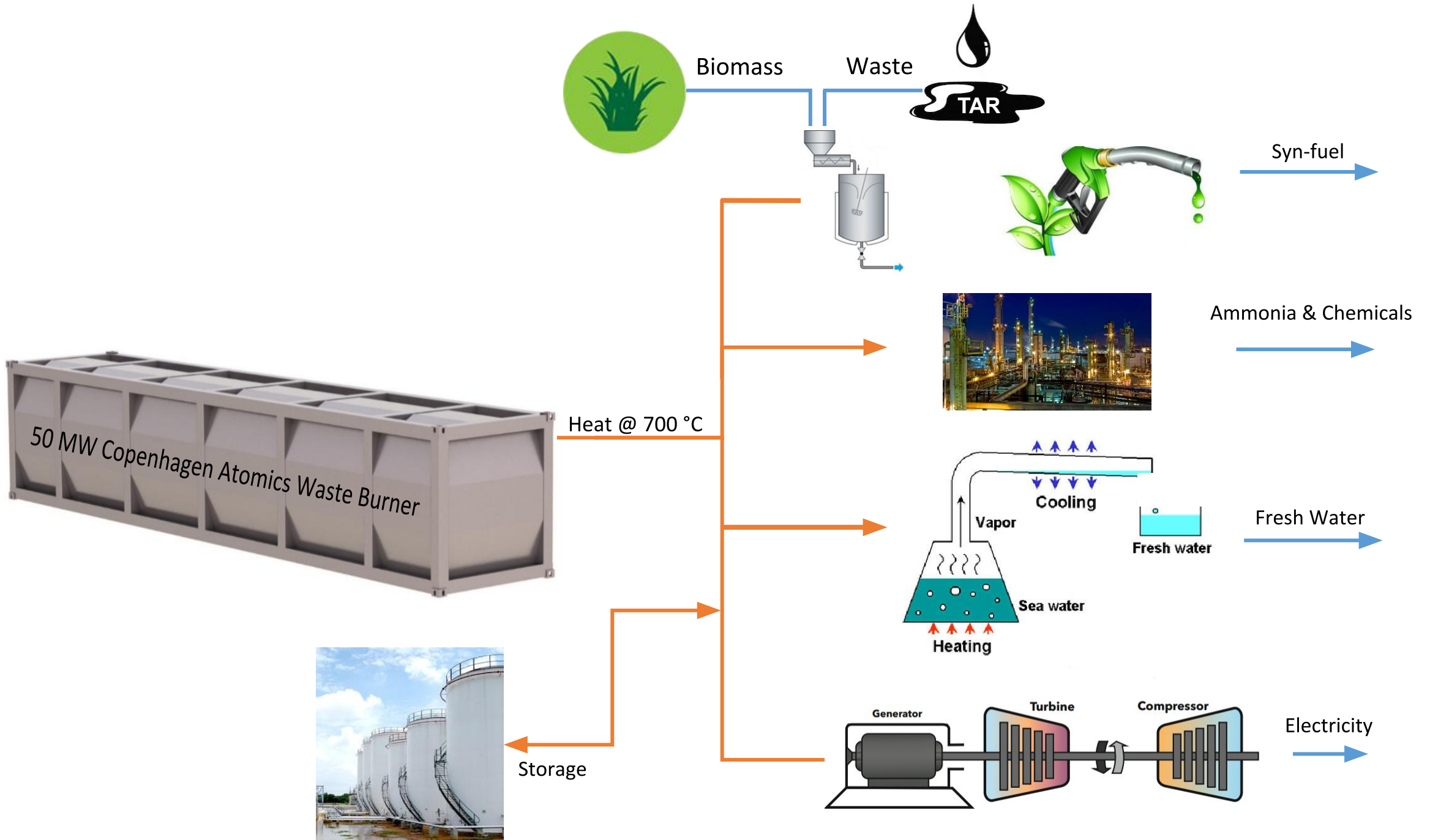
**THORIUM ENERGY ALLIANCE CONFERENCE 10**

by Thomas Jam Pedersen

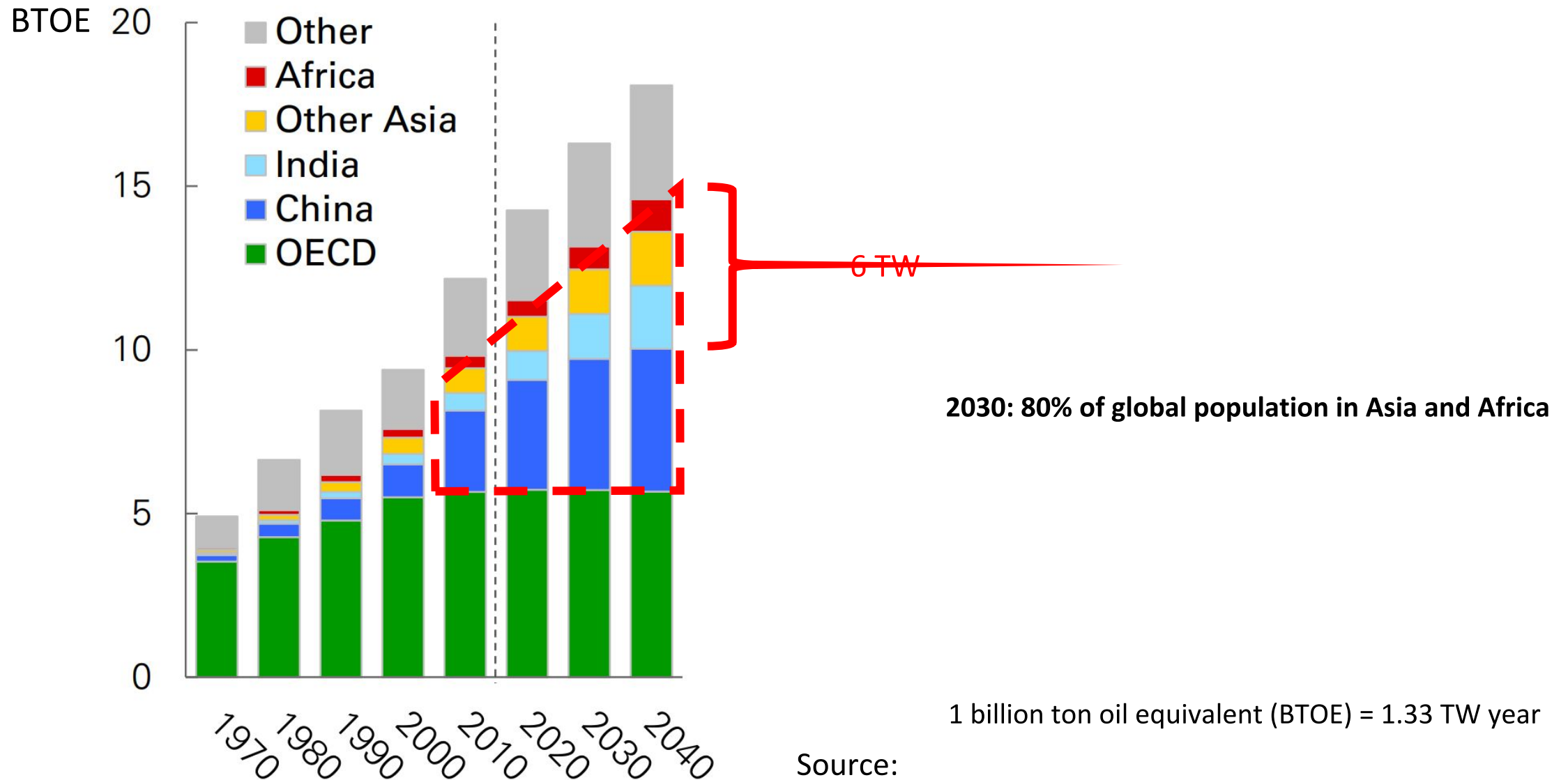


Visualization of 50MW Copenhagen Atomics Waste Burner

2030s target: Build 50MWe powerpacks on assembly line (several each day)

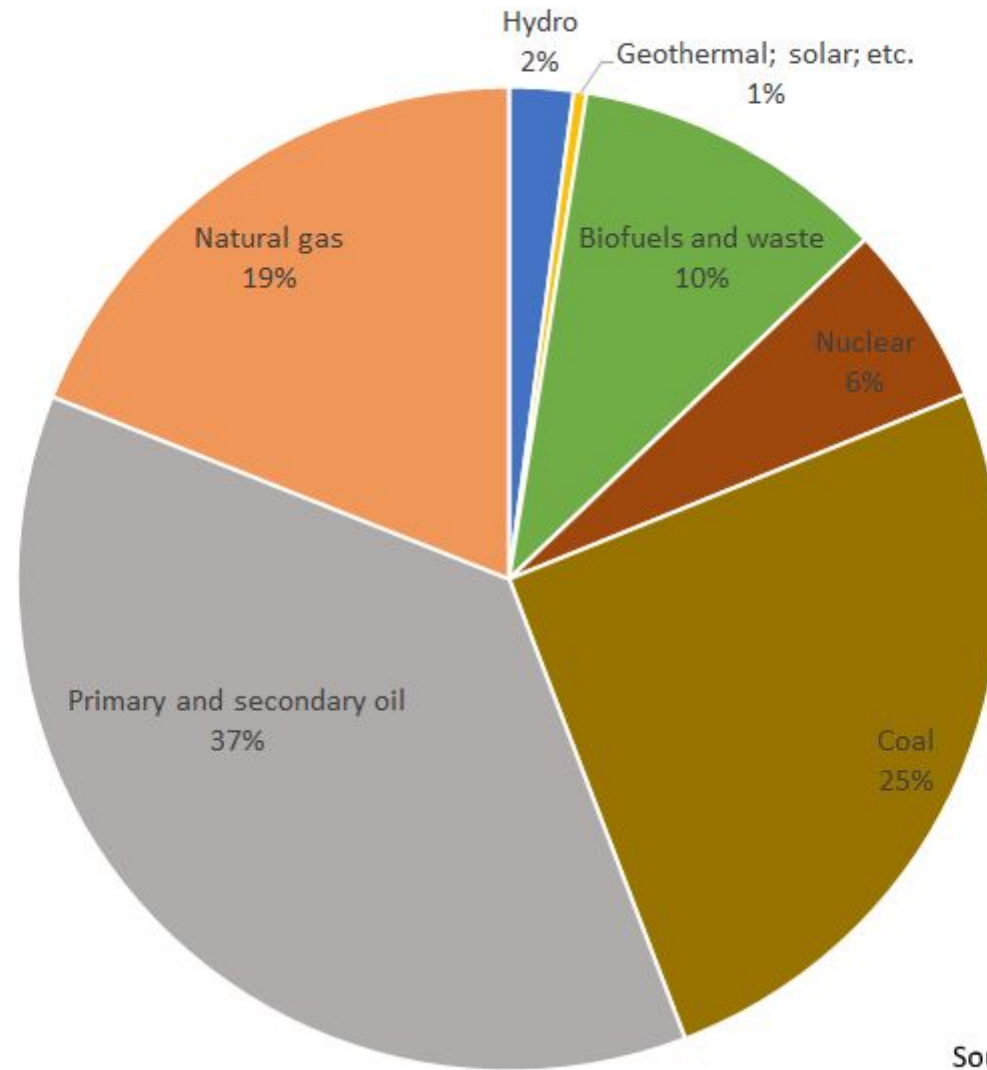


# Flat in OECD, double in Asia and Africa



Source: <https://www.bp.com/content/dam/bp/en/corporate/pdf/energy-economics/energy-outlook/bp-energy-outlook-2018.pdf>

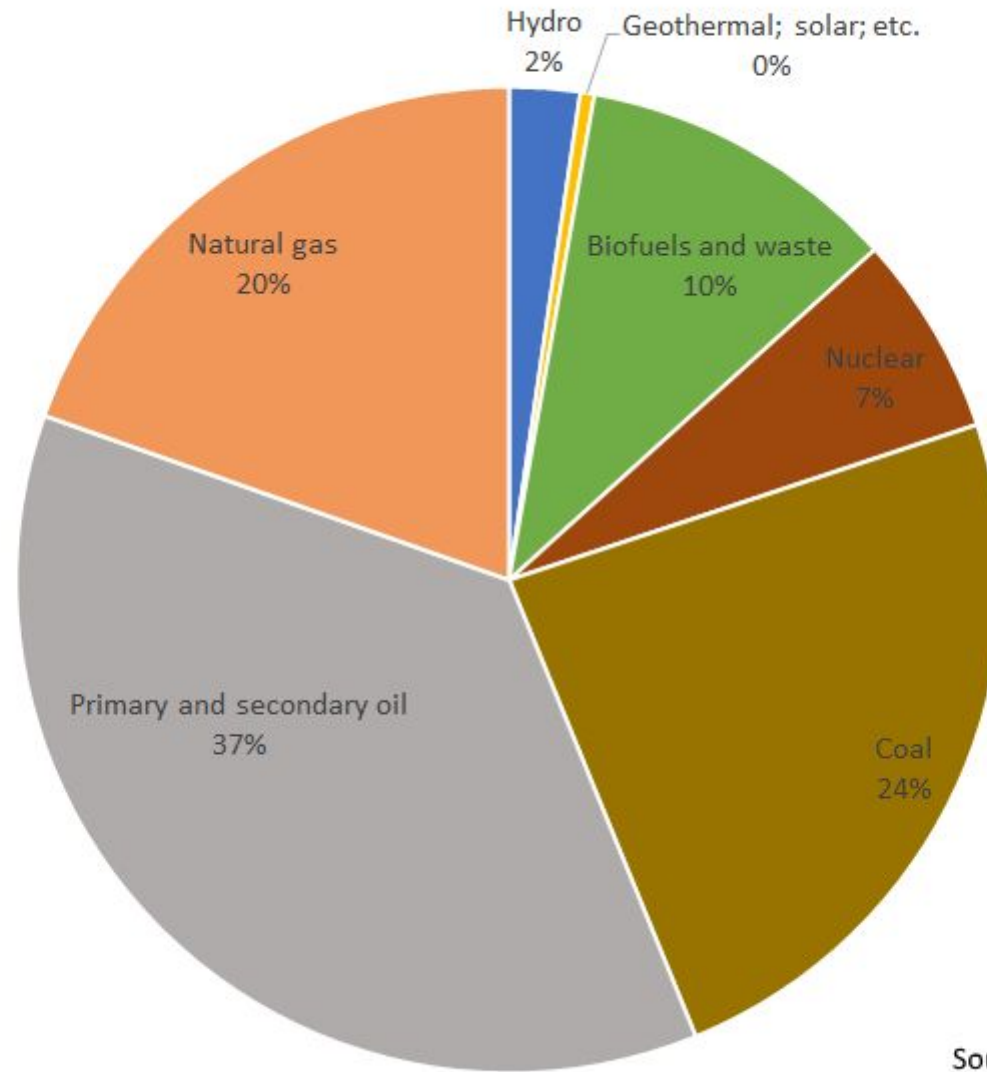
## Total Global Primary Energy Supply by source - 1990



Source:



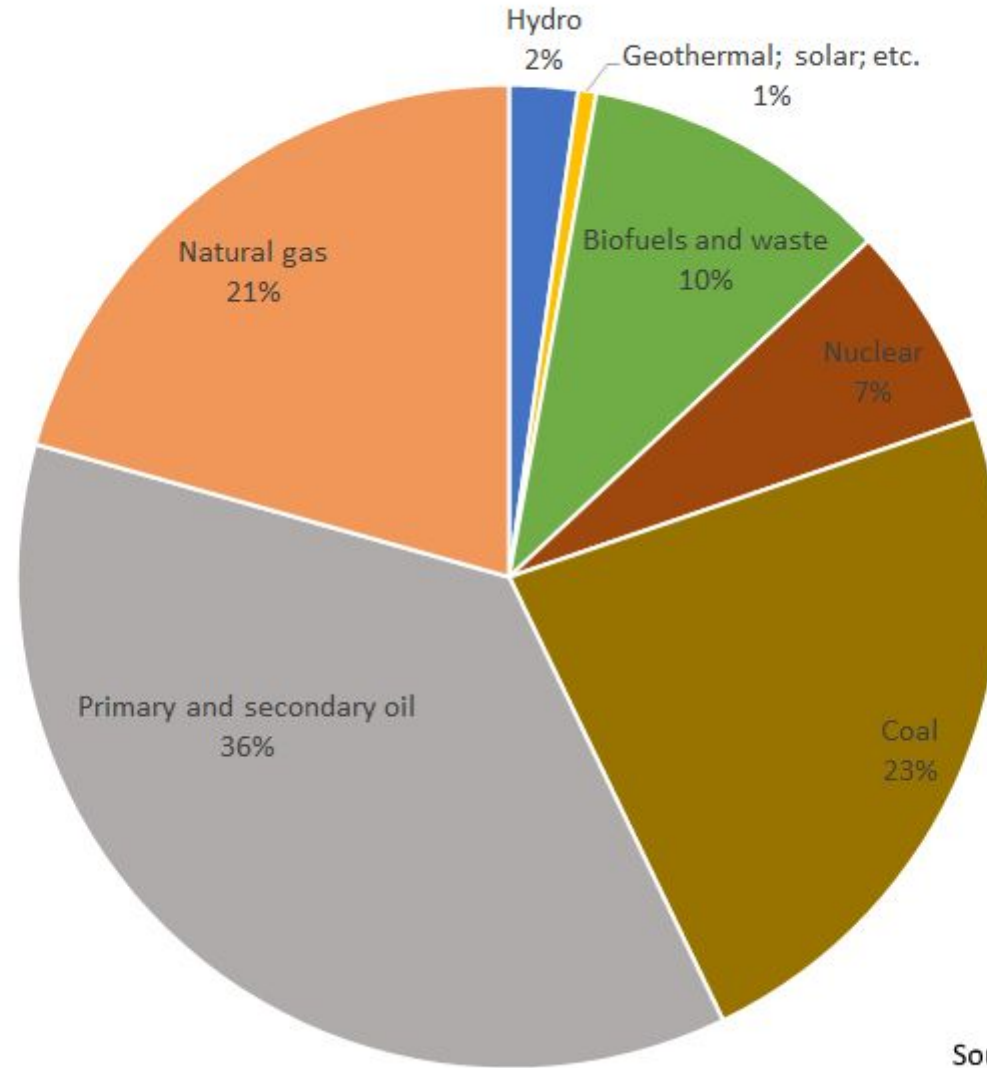
## Total Global Primary Energy Supply by source - 1995



Source:



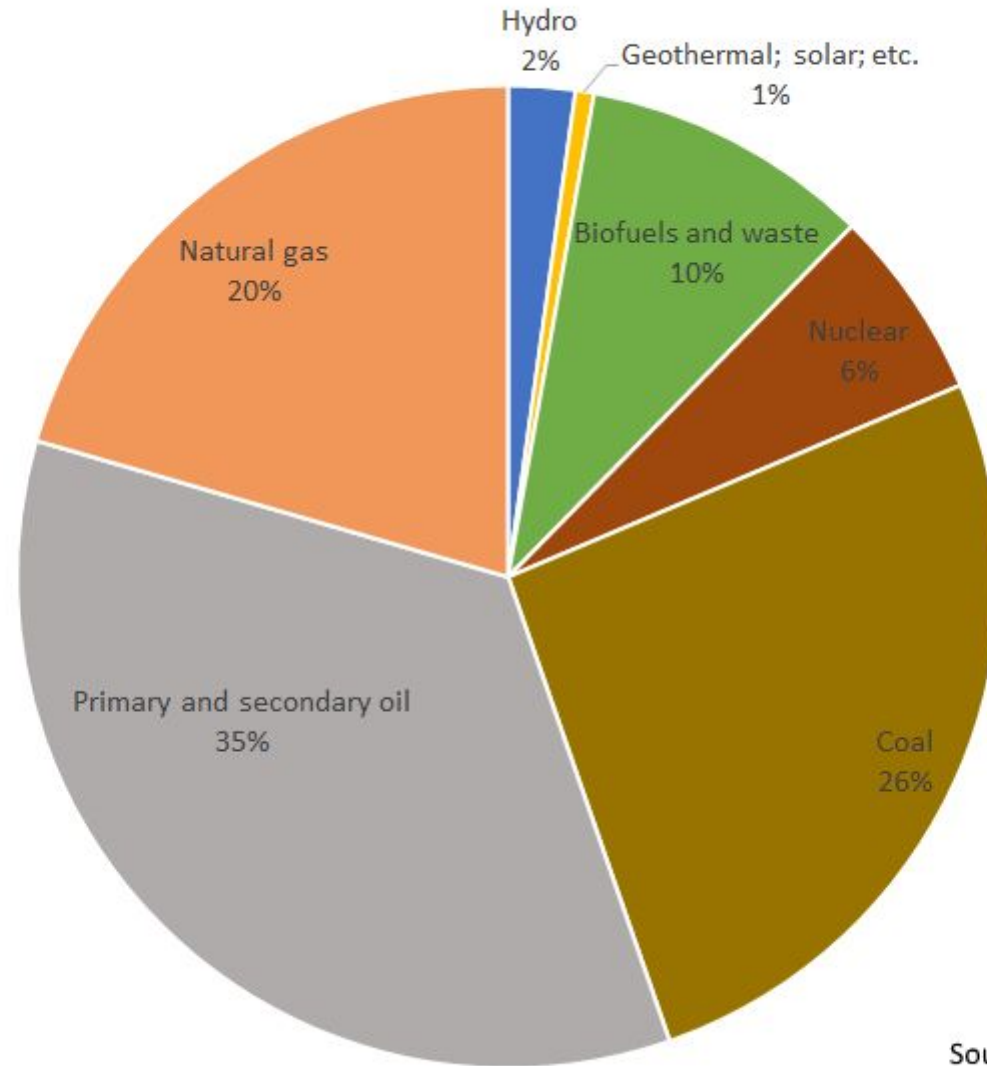
## Total Global Primary Energy Supply by source - 2000



Source:



## Total Global Primary Energy Supply by source - 2005

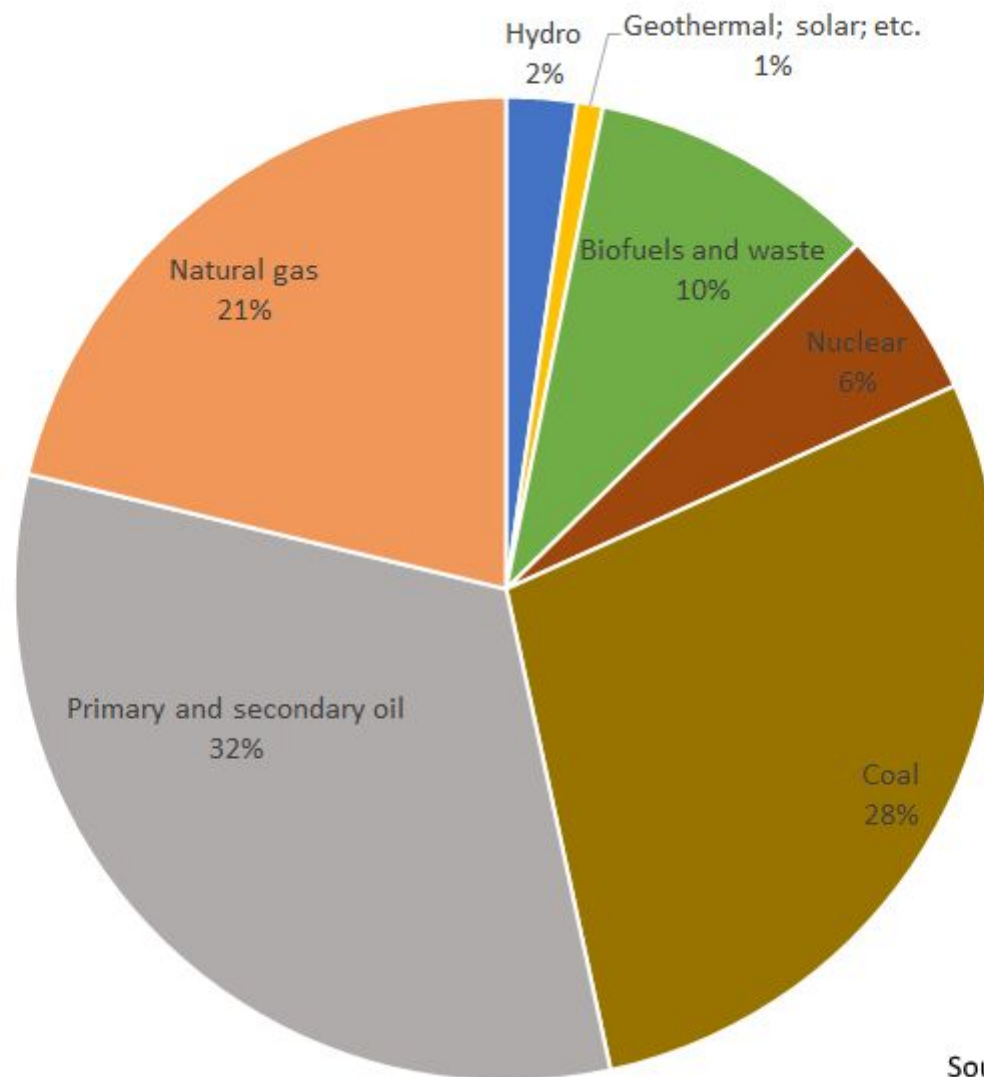


Source:





## Total Global Primary Energy Supply by source - 2010

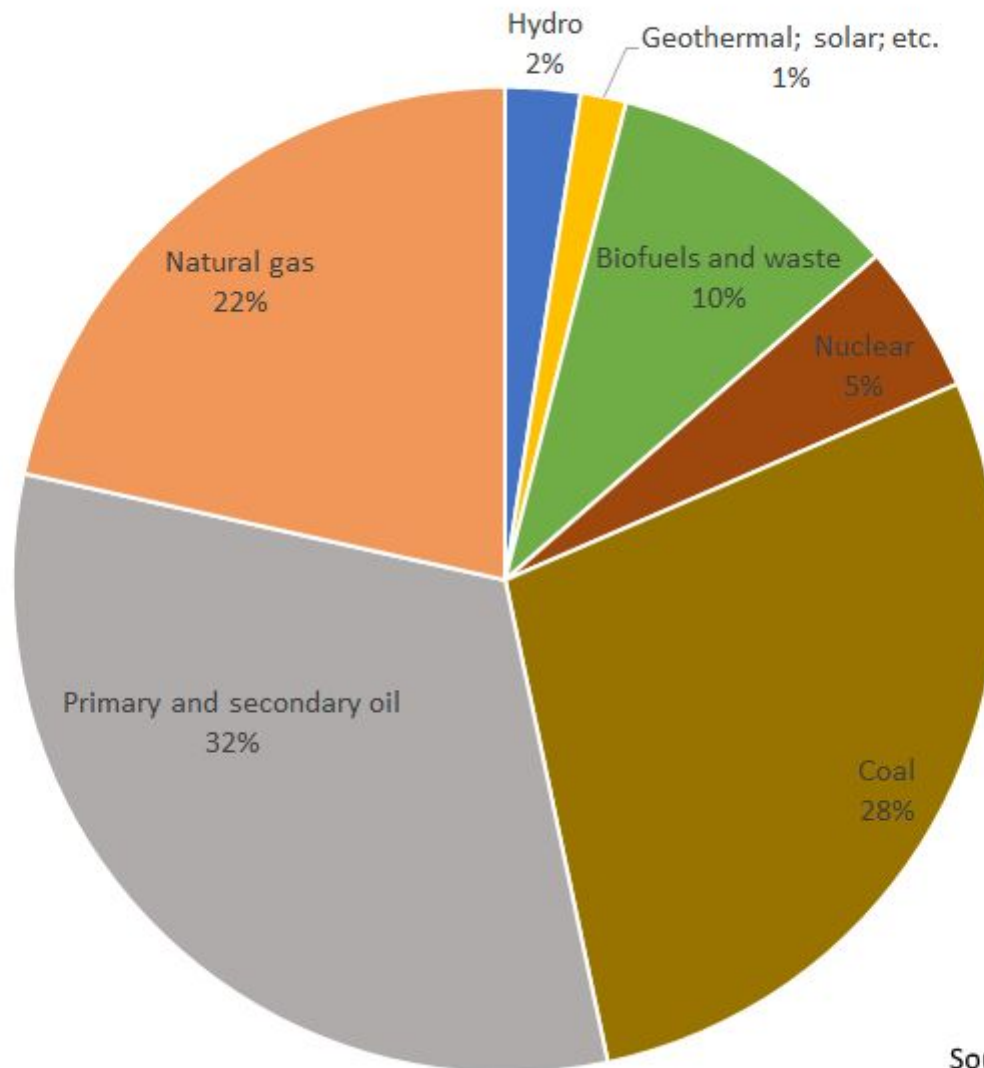


Source:



International  
Energy Agency  
OECD

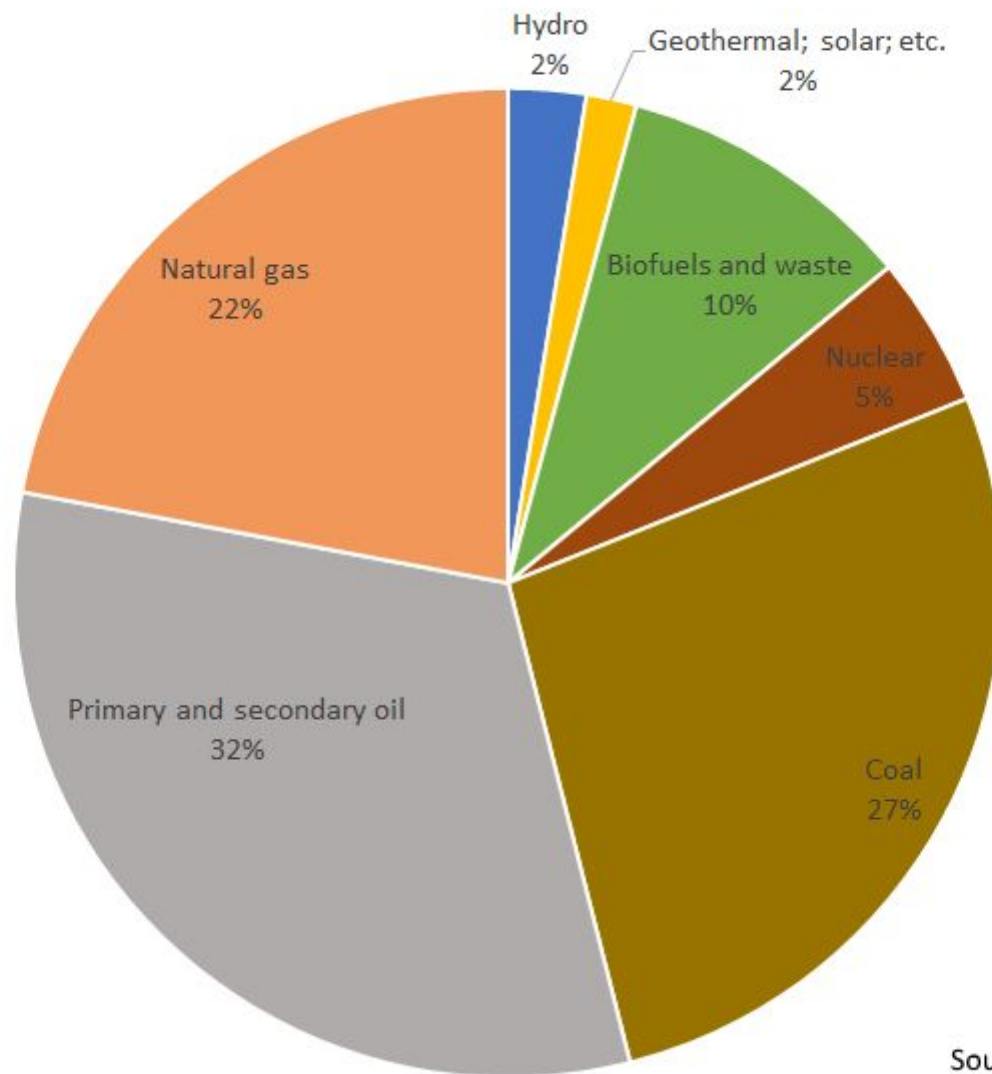
## Total Global Primary Energy Supply by source - 2015



Source:

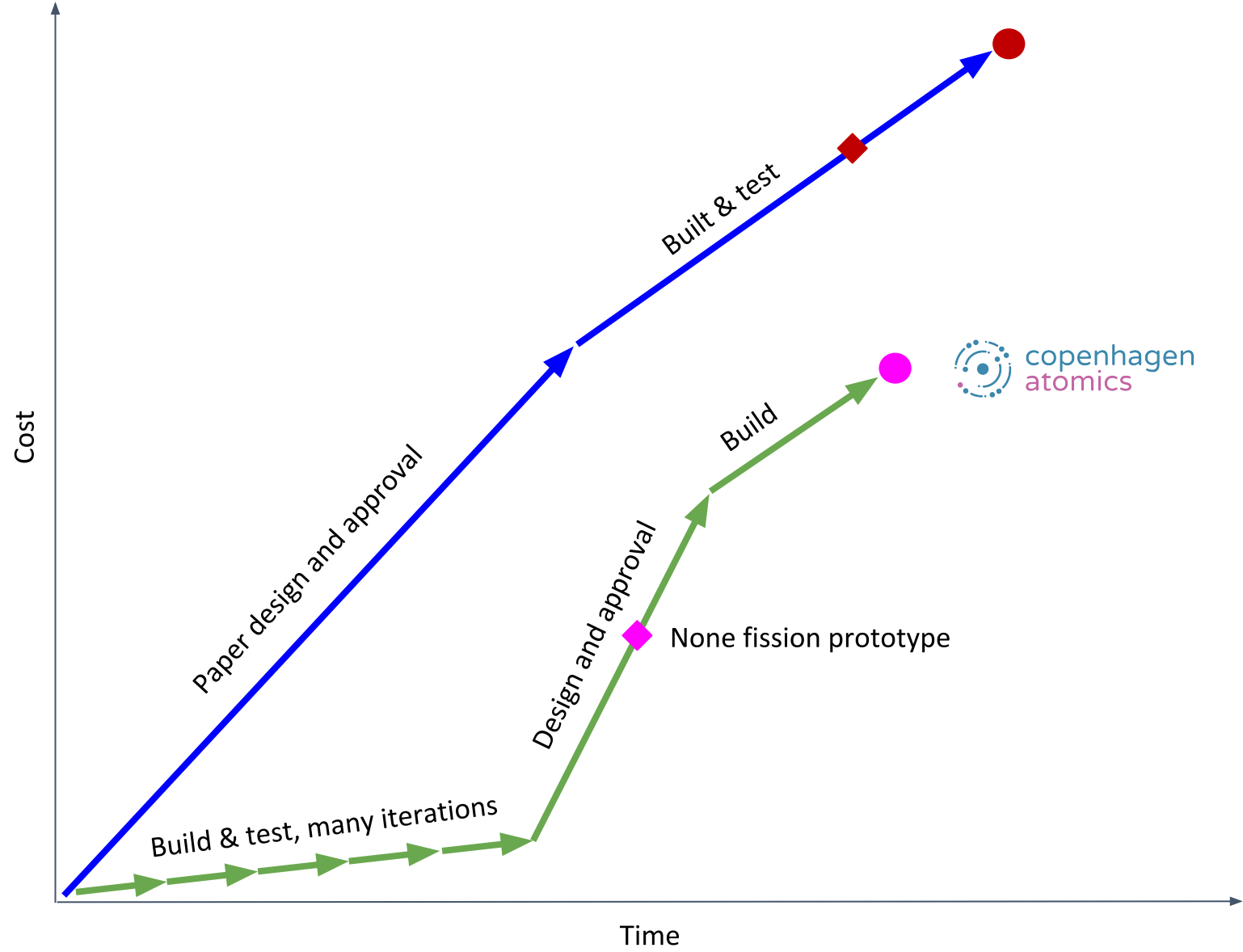


## Total Global Primary Energy Supply by source - 2016

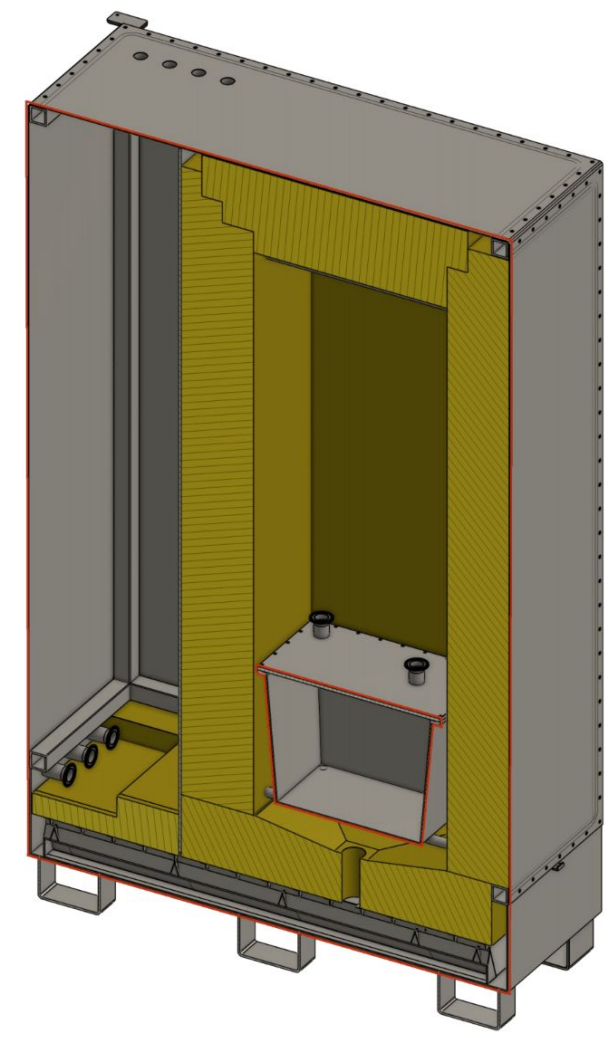


Source:





# Portable Molten Salt Loop



Section view

# World's first molten salt pump without seals

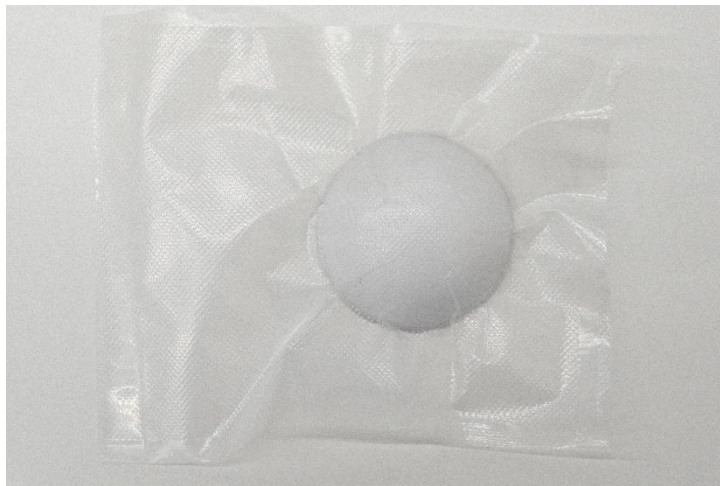


Next version has electromagnetic bearings and very long MTBF.

Current size: 1 MW flow



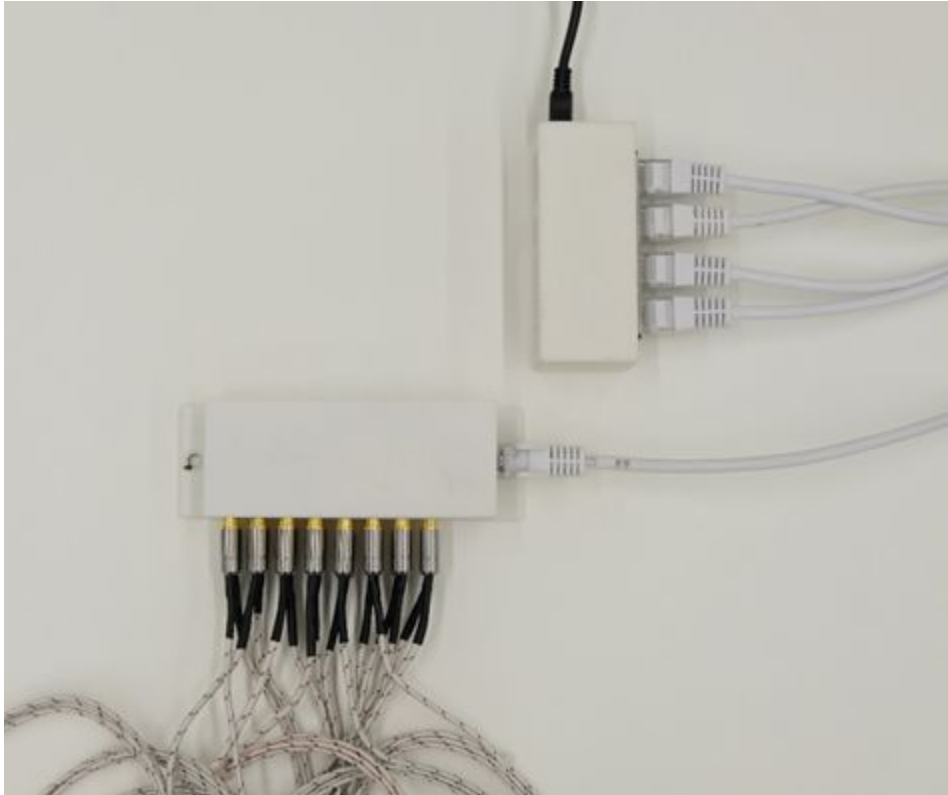
# Fluoride, Chloride, Nitrate salts



Remove impurities and moisture from salt. Sell ingots of different salts.

In the near future we hope to be able to supply salts containing Thorium and Uranium to researchers.

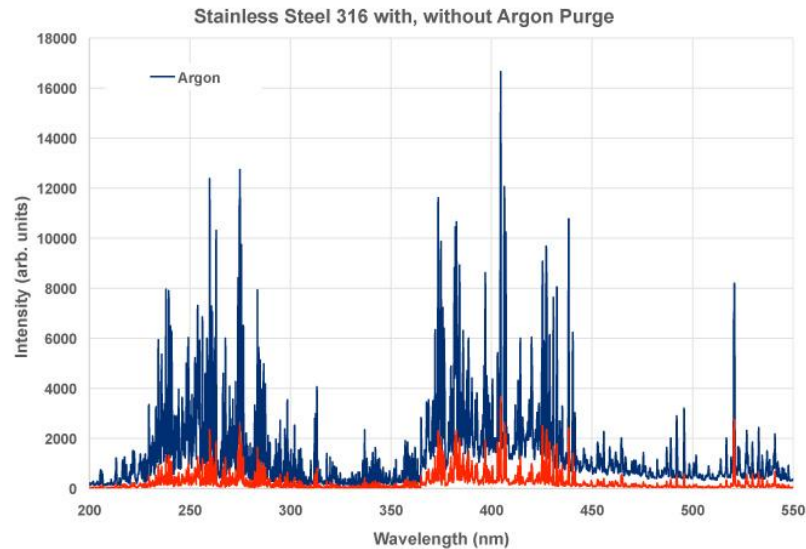
# Enabling components and systems





# HW & SW by Copenhagen Atomics

- Molten Salt Test Systems
- Measurement Systems
- Chemical Separations Systems
- Simulations and Control Software



# You can support us

Open investment round later this year  
Email us if you are interested

[invest@copenhagenatomics.com](mailto:invest@copenhagenatomics.com)

We are different

We do not mimic the old nuclear industry, spending millions of \$ on meetings and documents

We build stuff - We change what is possible

# Future Milestones:

- Run a loop without stop for 9000 hours (1 year)
- Hire 5 new people
- Molten Salt Loop test with LiF-ThF<sub>4</sub> salt in 2020
- Molten Salt Loop test with fertile salt in collaboration with CNL
- Construct more than 10 loops during next 12 months
- Construct a non fission prototype of a 1 MW demo reactor
- Long term goal: To build 50 MW reactor on assembly lines

Check out our  YouTube Channel