

A detailed 3D rendering of an industrial refinery or chemical plant. The central focus is a large, blue, conical reactor vessel mounted on a concrete base. It is surrounded by a complex network of pipes, metal walkways, and scaffolding. In the background, other industrial structures, including a tall distillation column, are visible against a twilight sky. A small, glowing blue figure of a person stands on a walkway in the middle ground, providing a sense of scale. The overall atmosphere is industrial and technological.

Using scientific leadership in bringing technology solutions to the market

Per K. Bakkerud, Haldor Topsoe A/S

IFP, Iran, April 2017

VCMStudy.ir

Some highlights since IPF, November 2015

- Sanctions against Iran lifted January 2016
- A number of projects restarted during 2016 and new contracts signed
- Topsoe opens office in Tehran; official inauguration in September 2016
- We continue through our JV company Ferrostaal/Topsoe Projects (FTP) to assist Iranian clients with financing of projects





Our founder, Dr. Haldor Topsøe, had an infectious passion
for science and a determination to prove it could make a difference

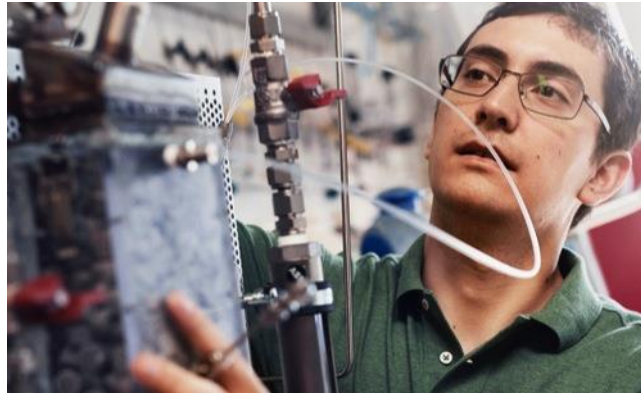
Our Mission:

Driven by our passion for science, we contribute to a profitable and sustainable future for our customers, their businesses, and their communities.

For over 70 years, we have pushed the limits of science and engineering
so we can do the things others say can't be done – day after day



Deeper understanding,
so we can see the possibilities



Wider exploration to determine
the path with greatest potential



Superior implementation so
we can realize the value

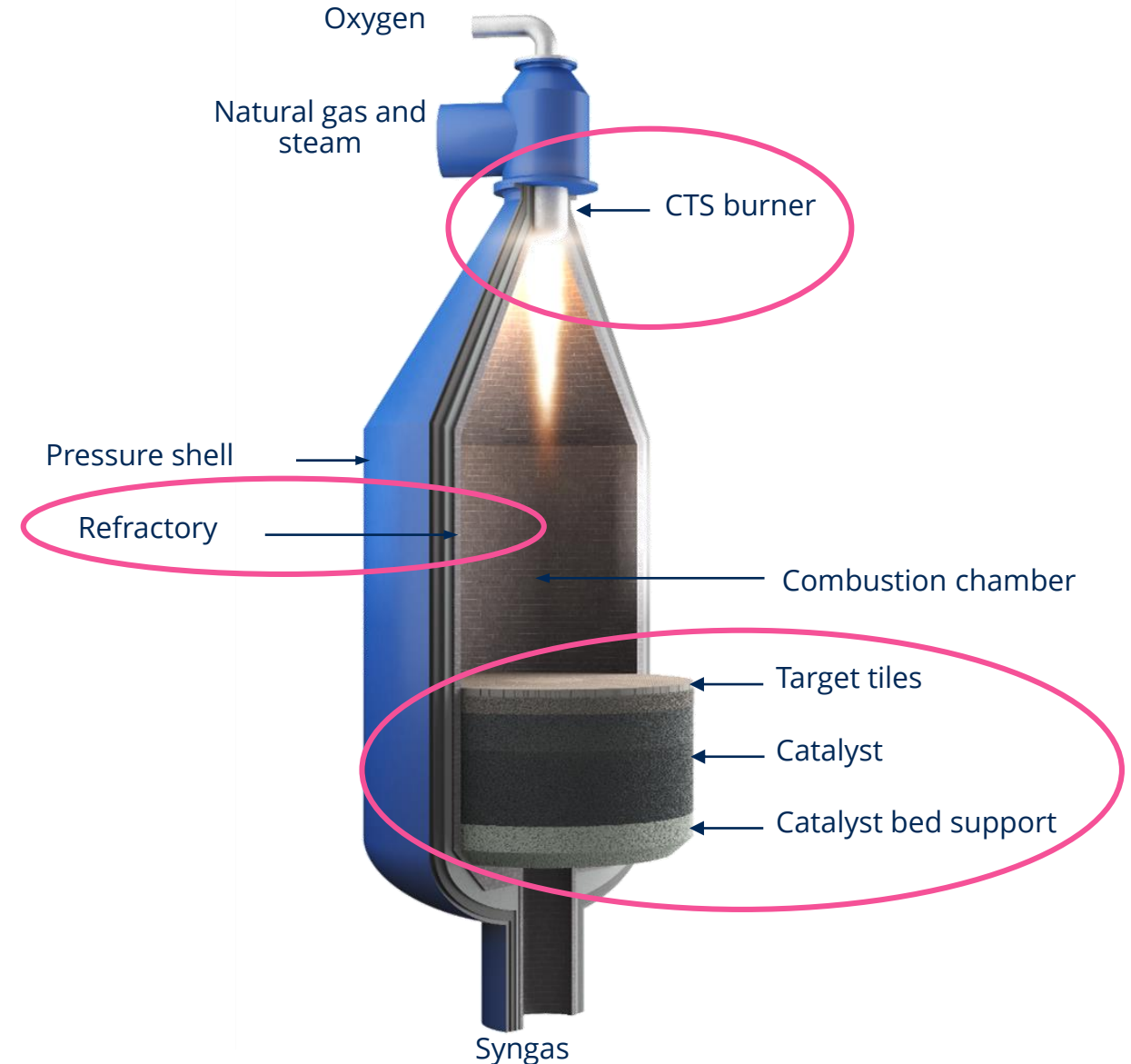
Topsoe ATR

- Step up your syngas business

- Optimal syngas production
- Market-leading developments
- See Topsoe ATR presentation

Our drivers for development

- Safe and reliable operation
 - More than 70 years at low S/C ratio
 - > 99% operation availability for ATR unit
- Maximize runtime and availability
- Large single line capacity, equivalent to
 - 19,000 BPD FT products
 - > 6,000 MTPD methanol
 - > 6,000 MTPD ammonia
- ➔ New innovative solutions in:
 - Burner technology
 - Refractory linings
 - Catalyst bed solution



Our commitment to the Iranian customers

- Financing of projects through FTP
- Continue providing innovative catalyst and technology solutions
- Offering high quality services to improve plant efficiency and reliability
- Design and start-up of more than 10 methanol plants
- Penetrate the Iranian refining industry with our top of the line hydroprocessing catalyst and technology solutions
- Offer our environmental solution; DeNO_x, automotive and sulfur management





There's always a **better way** to do things.
If it's not scientifically **proven** that
something can't be improved, we **believe** it
can.

Haldor Topsoe A/S

VCMStudy.ir