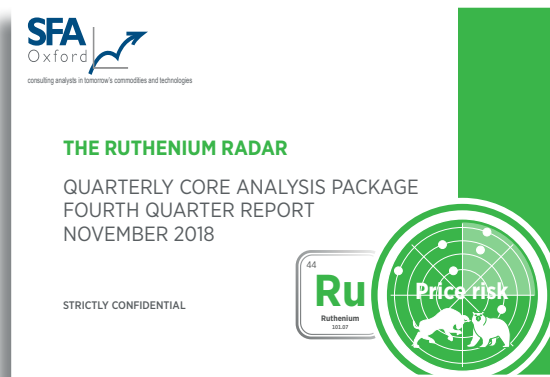


# The ruthenium market out to 2022



## Peerless understanding of the ruthenium market

SFA (Oxford) is the only company in the world to derive ruthenium mine production and construct detailed demand modelling of all major end-uses.

The Ruthenium Radar gives an authoritative, independent view and a watching brief on the development of the market.

It offers an overview of changing technological developments and highlights the underlying evolution of demand and end-use applications.

The study provides a thorough examination of the events and trends impacting the ruthenium market now and over the next five years.

For full details please contact us.

## Key features:

- **Market summary**
- **Price outlook and drivers to 2022**
- **Demand trends and stock estimates**
- **A unique supply and demand market balance**
- **Trade flow analysis**
- **Materials for new energy applications**
- **Supply challenges and mine economics**

The **latest 25 page quarterly report** includes commentary and analysis on:

- **Thick film chip resistors'** growth.
- Ruthenium's role in **future storage materials and technology**.
- Ruthenium-based components in **smartphones**.
- **Renewable hydrogen** – A step closer via ruthenium catalysed ammonia synthesis.

