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| Financial Times in the News: Desalination |



# Theme and Specification link

This resource explores how a growing number of countries are turning to desalination as an option to manage water stress.

The link to the article can be found here: <https://bit.ly/47qvpFk> or use the QR code in the top right corner of this page.

This article underpins many aspects of energy security within the A Level Specifications specifically:

AQA

3.2.5.2 Natural resource issues

3.2.5.3 Water security

3.2.5.6 Resource futures

3.2.5.7 Case studies

Edexcel

5.7 There are physical causes and human causes of water insecurity.

5.8 There are consequences and risks associated with water insecurity.

5.9(a) There are different approaches to managing water supply, some more sustainable than others.

EDUQAS & (WJEC)

(3) 2.1.5 Deficit within the water cycle.

(3) 2.2.9 Managing marine environments.

(3) 2.2.10 Managing ocean pollution.

OCR

2.a. Humans have influenced the climate system, leading to a new epoch, the Anthropocene.

3.a. Human factors can disturb and enhance the natural processes and stores in the water and carbon cycles

# Key terms

Use the article and your own knowledge to define the key terms below:

*Brine*

*Climate change*

*Desalination*

*Reverse osmosis desalination*

*Thermal desalination*

*Water stress*

# Summary in numbers

Find the related statistic in the article and develop it to add context and summarise the report.

$63mn

**Wider issues**

Write a question here to help think about other issues which might influence the points in the article.

800km

12%

86%

150mn

2030

1951

$20bn

21.7%

2024

70%

97%

18%

€400mn

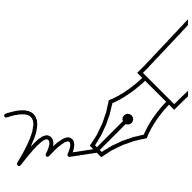
# Open book outlineCase study

The Barka IV Desalination plant is the biggest of its kind in Oman. Create a short case study on this plant highlighting the opportunities and challenges faced for a desalination plant.

# Synoptic links

Note down any synoptic links using your specification to help you. A Mind map might be helpful here.

Desalination



# 5 examination style questions

Water stress is a global issue. Discuss.

Explain the process of reverse osmosis desalination.

Analyse the pattern of water stress using the baseline water stress map.

Explain the limitations of reverse osmosis desalination.

Assess the view that desalination is only viable if a country has the funds to pay for it.