

# Fibre Technology Association

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# Recovered Paper



## Recovered Paper

**“The use of Deinked Fiber in  
Newsprint could be increased  
towards a theoretical maximum of  
approximately 30%”**

# Recovery Rates

**Question:**

**How can we increase the availability of  
Recovered Paper?**

**Answer:**

**Close a few Paper Mills.**

# FTA Philosophy

- **Flexible, Multi-Discipline Team.**
- **Mainly Commercially Driven.**
- **Technology Transfer – Industry**
- **Technology Transfer – Country**

# The Fibre Technology Association

- **Services:**
  - ✓ Technical Support Services.
  - ✓ Consultancy.
  - ✓ Contract Research & Development.
- **Employees:**
  - ✓ No Employees, all consultants are Associates.
- **Students:**
  - ✓ None

# The Fibre Technology Association

- **Ownership:**

- ✓ **Private Limited Liability Company.**
- ✓ **Registered in UK.**
- ✓ **Started Operations in 1995.**
- ✓ **Initial Strategic Alliances with:**
  - ✓ **Major University Departments**
  - ✓ **Other Research / Technical Organisations**

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## ● Activities:

- ✓ Deinking – Conventional / Enzymatic.
- ✓ Near Virgin Fibre (NVF) Streams.
- ✓ Optimisation of Pulping / Refining Systems.
- ✓ Low Energy / Multi-Disc Refining.
- ✓ Energy Optimisation.
- ✓ Novel Energy Options for Paper.
- ✓ Fate of Chemicals.
- ✓ Paper Sludge Treatment / Novel Products.

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**Background**

**Chemical Physics**  
**Microbiology**  
**Business Management**



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## Activities Include:

- ✓ Deinking
- ✓ Fibre Processing
- ✓ Stock Preparation
- ✓ Environment
- ✓ Waste Water Treatment
- ✓ Sludge Treatment / Products
- ✓ Process Control
- ✓ Waste Recovery

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## Current Projects:

- ✓ Novel Fibre Sources for Tissue
- ✓ Paper Specifications
- ✓ Fate of Chemicals
- ✓ Energy Optimisation
- ✓ European Market Surveys
- ✓ Other (Private Clients)

## Near Virgin Fibre (NVF):

Ω Increased Recycling leads to Decreasing Fibre Quality.

Ω Disposal of Rejects leads to Increased Costs.

Ω Recycling Fibre requires Energy: Prices are increasing.

Y Near Virgin Fibre utilises Single Pass Recyclate.

Y Fibre Quality usually very high.

Y Low Levels of Contamination.

Ω Usually a Second Component.

## **Fate of Chemicals:**

- **IPPC Legislation requires greater understanding of Flow of Materials through the Paper Mill System.**
- **REACH Legislation requires detailed knowledge of Chemical Fate.**
- **Increased Recycling increases Accumulation of Chemicals in the System.**
- **Industry required to have a better understanding of where Chemicals / Contaminants go.**

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## Expectations:

- ✓ Current Recovery / Recycling Situation.
- ✓ Current Best Practice.
- ✓ Current Research in Europe.
- ✓ Factors influencing Recovered Paper Collection.
- ✓ Factors influencing Recovered Paper Utilisation (Recycling).

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## Organisation:

- ✓ The Fibre Technology Association works closely with the UK's Paper Industry Technical Association (PITA).
- ✓ Potential to organise meetings in the UK.
- ✓ Publicise COST Events (Paper Technology)

# Modern Philosophy

*Reports that say that something hasn't happened are always interesting to me, because as we know, there are known knowns; there are things we know we know. We also know there are known unknowns; that is to say we know there are some things we do not know. But there are also unknown unknowns — the ones we don't know we don't know.*

**Donald Rumsfeld**

US Defence Secretary - 2004

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