

# Transferring EU Regulation 2020/741 into German Technical Rules

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# Technical Rule DWA-M 1200

## Water Reuse for Agricultural and Urban Irrigation



### **DWA working group KA-8.4** ***“Water reuse for agricultural and urban irrigation”***

- ca. 40 experts (universities, consultants, treatment plant operators, authorities, manufacturers)
- active since June 2021

### **DWA working group GB-4.1** ***“Application of reclaimed water for irrigation”***

- ca. 10 experts (universities, authorities, treatment plant operators, consultants, Chamber of Agriculture for Lower Saxony)
- active since April 2021

#### **DWA-M 1200-1**

“Principles of water reuse  
for different applications”

#### **DWA-M 1200-2**

“Requirements regarding  
advanced water treatment for reuse”

#### **DWA-M 1200-3**

“Application of reclaimed water for agricultural,  
horticultural, and landscape irrigation”

*Objective: publication by June 2023*

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## Part 1 – Principles of water reuse

- **Relevance** of water reuse
- **Regulatory framework** for water reuse
  - EU regulation 2020/741 and relevant EU guidelines
  - national regulatory framework (e.g., integration into national water and soil legislation)
- **Permit** of water reuse
  - institutional requirements
- **Risk management** for water reuse
  - development of a risk management plan (identification of hazards, risk assessment)
  - preventive measures
  - monitoring and management of incidents and emergencies
- **Economic aspects, communication and implementation**



Source: [www.agrarheute.de](http://www.agrarheute.de) (Julia Schürer)

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## Part 2 – Requirements reg. advanced water treatment

- **Treatment processes** for meeting the quality requirements of different reuse applications
  - compilation and combination of appropriate processes
  - consideration of demands of different users (cf. DWA-M 1200-3)
- **Operation and management of treatment facilities** for water reuse
- Requirements regarding **transport, storage, and distribution** of reclaimed water
  - e.g., consideration of seasonally varying water demand



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## Part 3 – Application of reclaimed water for irrigation

- **State-of-the-art** regarding irrigation
  - planning criteria for irrigation
  - required infrastructure
- **Applications**
  - agriculture
  - horticulture
  - forestry and nurseries
  - urban green and landscape
- **Limitations and requirements**
  - crops and crop rotation
  - impacts on ecosystems
  - quality criteria and further application-specific requirements (if necessary)



**Thank you.**