Part of the RETHMANN Group
A family-owned corporation

Environmental & Technical Services
- Metals
- Water
- Services
- Recycling

TURNOVER 2018
- approx. 6,400m euros
- approx. 31,200 employees
REMONDIS QR, Germany
The Group’s mercury specialist

- Certified „Specialized Waste Management Company“
- Established in 1989 (as NQR GmbH)

- Dorsten (our main site)
  - 2 plants for mercury treatment:
    - Rotary kiln
    - Vacuum mixer (Hg → HgS)
  - 3rd plant currently in assembling:
    - Vacuum tube kiln
Rotary Kiln (Dorsten site)
Distillation of mercury contaminated waste

- Coin cells
- Soil / Sludge
- Catalyst
- Activated carbon

Capacity 10,000 t/a
Continuous process
Vacuum Mixer (Dorsten site)
Stabilization of liquid mercury

Capacity 400 t/a
Mercury sulphide (HgS)

Liquid mercury
Sulphur
Box kiln (Lübeck site)
Distillation of mercury contaminated waste

Scrap metal
Amalgam
Thermometers, glas etc.
Coin cells

Batch process
Capacity < 300 t/a
REMONDIS QR, Germany
Types of mercury waste & sites

DORSTEN

- Soil, sludge, spent absorbents (catalysts, carbon)
- Pumpable waste (with hydrocarbon, flash point)
- Metallic mercury (Hg)

LÜBECK

- Batteries
- switches, relays, thermometers, electronic waste, , lamps, rectifiers etc.
- dental amalgam
- scrap metal
Sectors – Who were our customers?
2014 - 2019

- Chemical Industry
- Oil & Gas Sector
- Mining Companies
- Waste management Companies
- NGOs
Regions – Where did the waste come from?
2014 - 2019

- **Industrialized Countries**  → Largest part of business carried out.

- **Less industrialized Countries**  → Several projects successfully realised.

- **Developing Countries**  → First projects are running, one project successfully realised.
Quantities – How much metallic Hg and Hg-contaminated waste?
2014 - 2019

- Biggest project with Hg-contaminated waste: approx. 800 mt (Oil & Gas Sector).

- Biggest project with stabilisation of metallic Hg: approx. 350 mt (Chemical Industry)

- Several bigger projects in Chemical Industry with 50 – 300 mt.

- Most of the projects are smaller – with less than 40 mt per Basel Permit.

- And in the future we will face more and more projects with less than 1 mt …..
Smallest quantities – will occur more often!
2014 - 2019

- ... like this one:
  - 11 kgs of metallic Hg, in 60L drum
  - from a waste management company
  - from a less industrialized country

- Where is the market for the treatment of mercury waste heading to?
Challenges for the future!
2020 - 2030

- ... more smaller and smallest projects

- ... will arise more and more in less industrialized and developing countries

- ... with small budgets for founding of such project

The solution: Collect mercury waste local & treat central.
Thank you for your attention!

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