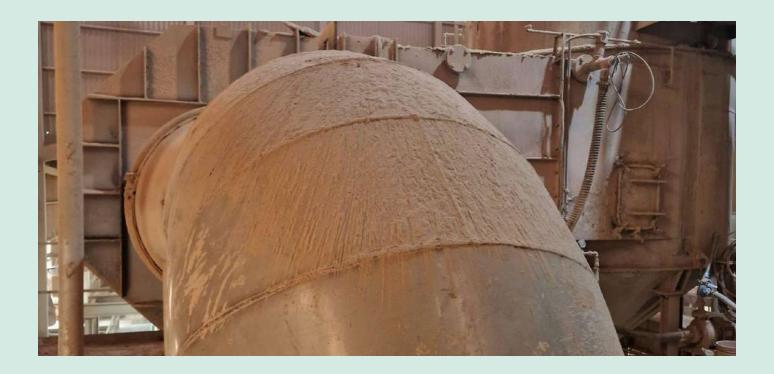
## **DRUPPS VAPOR**



# Recycle water and heat from dusty industrial airstreams

| •               | Reduces net water use             | Recycling of water means less net water needed and improved efficiency         |
|-----------------|-----------------------------------|--|
|                 | Reduces net energy use            | Recycling of energy reduces the need for new energy use                        |
| CO <sub>2</sub> | Reduces CO <sub>2</sub> emissions | Reduced net energy use means less fossil fuels and CO <sub>2</sub> emissions   |
| 200+<br>200+    | Cleans air with zero water loss   | A unique wet scrubber that cleans dirty or dusty airflows with zero water loss |



### DRUPPS VAPOR WATER •

Airflow temperature <80°C. No energy recovery. Suitable for industries with dusty airflows, with main priority to recycle water.

| TOTAL                     |               | 169,000 €/yr     |
|---------------------------|---------------|------------------|
| Electric Power Consumed   | -995 MWh/yr   | -109,000 €/yr    |
| CO <sub>2</sub> Reduction | 0 ton/yr      | 0 €/yr           |
| Thermal Power Recycled    | 0 MWh/yr      | 0 €/yr           |
| Water Generated           | 111,000 m³/yr | 278,000 €/yr     |
| VAPOR WATER               | OUTCOME       | VALUE GENERATION |

Air Flowrate 100,000 m³/h • Dryer Outlet Air Temperature 76°C • Dryer Outlet Air Relative Humidity 70% • Ambient Air 20°C/60% • Operating Time 6,500 h/yr • Water 2,5 €/m³ • Natural Gas 80 €/MWh • CO<sub>2</sub> 80 €/ton • Electricity 0.11 €/kWh

# DRUPPS VAPOR ENERGY •

Airflow temperature <95°C. Suitable for industries with dusty airflows aiming to recycle only energy.

| VAPOR ENERGY              | OUTCOME       | VALUE GENERATION |
|---------------------------|---------------|------------------|
| Water Generated           | 5,800 m³/yr   | 14,000 €/yr      |
| Thermal Power Recycled    | 13,800 MWh/yr | 1,107,000 €/yr   |
| CO <sub>2</sub> Reduction | 2,561 ton/yr  | 205,000 €/yr     |
| Electric Power Consumed   | -944 MWh/yr   | -104,000 €/yr    |
| TOTAL                     |               | 1,222,000 €/yr   |

Air Flowrate 100,000 m³/h • Dryer Outlet Air Temperature 100°C • Dryer Outlet Water Content 0.180 kg/kg • Ambient Air 20°C/60% • Operating Time 6,500 h/yr • Water 2,5 €/m³ • Natural Gas 80 €/MWh • CO₂ 80 €/ton • Electricity 0.11 €/kWh

### DRUPPS VAPOR MAX •

Airflow temperature <95°C. Suitable for industries with dusty airflows aiming to maximize water recovery and recycle energy.

| VAPOR MAX               | OUTCOME       | VALUE GENERATION |
|-------------------------|---------------|------------------|
| Water Generated         | 74,000 m³/yr  | 184,000 €/yr     |
| Thermal Power Recycled  | 13,800 MWh/yr | 1,107,000 €/yr   |
| CO2 Reduction           | 2,561 ton/yr  | 205,000 €/yr     |
| Electric Power Consumed | -944 MWh/yr   | -104,000 €/yr    |
| TOTAL                   |               | 1,392,000 €/yr   |

Air Flowrate 100,000 m³/h • Dryer Outlet Air Temperature 100°C • Dryer Outlet Air Water Content 0.180 kg/kg • Ambient Air 20°C/60% • Operating Time 6,500 h/yr • Water 2,5 €/m³ • Natural Gas 80 €/MWh • CO₂ 80 €/ton • Electricity 0.11 €/kWh