

## **GLOBEWATER, AB**

### **Sweden**

#### **Executive Summary Discovery Process**

Mr. Pontus Schwalbe is a retired Swedish Air Force Officer, Scientist, Engineer and Entrepreneur, developed holder of 50+ Swedish Patents, Registered TM's.

Pontus Schwalbe is the originator; founder COB/President/CEO of Globewater, AB Sweden.

Globewater, AB was founded in 19xx.

Globewater, AB holds two specific registered Swedish, EU Patents, and two registered Trade Marks for its proprietary industrial cleansing processes

#### **Sorbus-**

- Industrial strength Remediation, Cleansing of polluted fresh, salt waters, lakes, rivers, streams, tributaries, subterranean water sources that have become contaminated

#### **Ecosoil-**

- Industrial strength Remediation, Cleansing of polluted surface soils and subterranean stratified soils, dirt, mud, shale, from 6 to 12 meters surface areas down to 150.0 meters in depth

**Globewater, AB of Sweden has developed multiple patents, TM processes, over the past 50+ years.**

**SORBUS and ECOSOIL are both specifically designed utilizing PMO Management Tools during Discovery Process to:**

- PPBS-Program, Planning, Budgeting, Systems
- PERT, Critical Path Program Management Scheduling Tools based upon both the pre-determined Milestones, Budgeted Costs Associated with each of those pre-determined milestones, as scientific, business, financial cost-benefit analysis and measurements of reclamation success per milestone and at the end of the program
- PMO-Program Management Office Tools
- Precisely, scientifically, identify, analyze, document, the inherent severity, health, environmental risks of Post-Sandy, Post-Katrina, Post-Fukushima, Japan hurricanes, Tsunami's, earth quakes,
- Each resulting in industrial cross-contamination, pollution of ground levels, sub-terranean aquifers, fragilely balanced water tributary systems, streams, rivers, bayous, shore line's
- Create Baseline Scientific Analysis of land, water pollution, toxicity levels
- Daily Documentation, Risk Measurements, performed by constantly taking a series of EPA accepted, Industry accepted Soil, Water, Oil, Gas, Petroleum, Raw Sewerage, CO-2,

Carcinogens', Microbe, Chemical, PH test samples, designed to precisely GPs, document, measure the presence, of "parts per million" of Heavy Metals, Mercury, Lead, Industrial Toxins,

- Manage & cleanse large industrial waste sites such as massive amounts of Industrially polluted ponds, lakes, streams, rivers, tributaries, coastal tide lands, subterranean water aquifers

## **Coal Ash Reclamation Neutralization**

### **Coal Fired, Steam Powered Electric Plants by Product Generation of airborne particulates of Toxic Coal Ash residue, laden with Sulfur, Mercury, Heavy Metals**

- Post-electric steam generation fly ash, containment, stabilizing, removing sulphur, acids, mercury and heavy metals from the massive fly ash post steam generation residue.
- Globewater, AB recommend "utilizing" cleansed Fly Ash as a proven binding agent in the mixture of cement for residential, commercial industrial highway uses, thus greatly reducing our inherent remediation costs for Steam Powered Electric Plants, cleansing of Fly Ash foot prints and providing a useful post remediation use of Fly Ash

### **Crude oil, gas, chemical, sewerage spills, leaky subterranean pipelines both along all US coastlines Gulf Coast, California Coast, East Coast and in the interior states**

- Crude oil spills along all US coastlines Gulf Coast, California Coast, East Coast
- Post Sandy Urban Contaminations, of East Coast USA sea shores, sea shore communities, businesses, subterranean contaminations,
- Post Katrina Urban Contaminations of Gulf Coast sea shores, sea shore communities, businesses, subterranean contaminations, bayou fishing communities diversified hunting, fishing, agribusiness infrastructures
- Broken subterranean pipeline carrying
  - crude oil, gas, from well heads to storage tanks and eventually refineries
  - the national subterranean US Fuel Refinery distribution systems pipelines grid to respective City, Town, Village Fuel Racks for commercial and residential consumption
  - refined oil, gasoline, diesel fuels No 2 Heating Fuels, Kerosene, Jet Fuels, Naphtha
  - chemicals distribution systems
  - raw sewerage distribution systems
  - leaky, rusted, broken Legacy Water distribution systems

## **Globewater, AB Reclamation, Industrial Cleansing Case Studies**

- **2011-IDA, Irish Gov't, Case Study City of Dublin, Irelands Water Shortages**
- Resulting from 150+ year old leaking rusted cast iron subterranean water distribution systems losses 30% of its fresh water carrying capacity to leaky, broken cast iron pipes PA. IDA, Irish Gov't reclamation, reparation estimate is Euro 1.0 B.
- This Urban Economics Management model applies to all major global cities, towns, villages legacy infrastructures that have installed subterranean cast iron water, sewerage pipe line networks under their urban footprints during the past 150+ years
- **2010-Present Day California Water Shortages,**

- reparation of subterranean of pipeline infrastructure, as part of the solutions
- **China Basin shore line of San Francisco, California, submarine and subterranean** footprints are contaminated with US Naval Ship Building and Repairs of US Fleet Ships using sand blasting, chipping red lead primer paints, and USN Battleship Grey exterior paints. Debris resulting during the entire Ship Building, Ship Wrighting, Fleet Maintenance Processes, particularly those USN ship physically present during the USN, AEC Bikini atoll Hydrogen bomb blast, Risk Assessments Analysis experiments carried on t Post WW II in 1945.
- **All former Kaiser Ship Building facilities along West Coast, Gulf Coast, East Coast, Great Lakes WWI, WW II shipbuilding, fleet repairs programs**
- **USA nationwide 83 major aging legacy oil, gas refineries**
- **Globewater, AB-**
  - **Sweden**
  - **Eastern Europe**
  - **Moscow, FSU**
  - **Murmansk**
  - **MEA**
- Fly Ash Reservoir Brakes, contaminating, destroying surrounding rivers, streams water tributary infrastructures, towns, villages, highways, bridges at local Steam Powered Electric Plants,
- i.e., Duke Energy plants in Kentucky, Tennessee, North Carolina, South Carolina, Virginia, Indiana, Ohio

## **Duke Energy Subsidiaries Plead Guilty, Sentenced for Clean Water Act Crimes**

May 15, 2015

*The companies will pay a fine and conduct community service and wetlands mitigation*

**Three subsidiaries of North Carolina-based Duke Energy Corp., the largest utility in the U.S.,**

- **pleaded guilty to nine criminal violations of the Clean Water Act**
- **at several of its North Carolina facilities and**
- **agreed to pay a \$68 million criminal fine and**
- **Spend \$34 million on environmental projects and land conservation to benefit rivers and wetlands in North Carolina and Virginia.**
- **Four of the charges are the direct result of the massive coal ash spill from the Dan River steam station into the Dan River near Eden, N.C., in February 2014.**
- **The remaining violations were discovered as the scope of the investigation broadened based**
- **On allegations of historical violations at the companies' other facilities.**

**Under the plea agreement, both Duke Energy Carolinas and Duke Energy Progress,**

- **must certify that they have reserved sufficient assets**
- **to meet legal obligations with respect to its coal ash impoundments within North Carolina,**

- Obligations estimated to be approximately \$3.4 billion.
- Officials from the U.S. Environmental Protection Agency's (EPA) Office of Enforcement and Compliance Assurance,
- EPA's Office of Inspector General,
- the Justice Department's Environment and Natural Resources Div. and
- the three U.S. Attorney's Offices in North Carolina,
- the Internal Revenue Service (IRS) Criminal Investigations and
- the North Carolina State Bureau of Investigation (SBI)
- Made the announcement following a plea hearing at the federal courthouse in Greenville, N.C.

**“Over 216 million Americans rely on surface water as their source of drinking water.**

- **Duke Energy put that precious resource at risk in North Carolina as the result of their negligence,”** said Assistant Administrator Cynthia Giles for EPA's Office of Enforcement and Compliance Assurance.
- **“Companies that cut corners and contaminate waters on which communities depend, as Duke did here, will be held accountable.”**

**On Feb. 20, 2015, the three U.S. Attorney's Offices in North Carolina filed separate criminal bills of information in their respective federal courts,**

- **alleging violations of the Clean Water Act at the following Duke facilities:**
- **the Dan River steam station (Rockingham County),**
- **the Cape Fear steam electric plant (Chatham County),**
- **the Asheville steam electric generating plant (Buncombe County),**
- **the H.F. Lee steam electric plant (Wayne County), and**
- **The River bend steam station (Gaston County).**

**The alleged violations included**

- **unlawfully failing to maintain equipment at the Dan River and Cape Fear facilities and**
- **unlawfully discharging coal ash and/or coal ash wastewater**
- **from impoundments at**
- **the Dan River,**
- **Asheville,**
- **Lee and River bend facilities.**

**As part of their plea agreements, Duke Energy Business Services LLC, Duke Energy Carolinas LLC and Duke Energy Progress Inc. will pay a**

- **\$68 million criminal fine and**
- **a total \$24 million community service payment to the National Fish and Wildlife Foundation**
- **For the benefit of the riparian environment and ecosystems of North Carolina and Virginia.**
- **The companies will also provide \$10 million to an authorized wetlands mitigation bank for the**

- purchase of wetlands or
- riparian lands
- To offset the long-term environmental impacts of its coal ash basins.
- In addition, they will pay restitution to
- the federal,
- state and
- local governments
- that responded to the Dan River spill and
- Be placed on a period of supervised probation for five years.

#### **Duke's subsidiaries operating**

- 18 facilities in five states,
- including 14 in North Carolina,
- will also be required to
- develop and implement nationwide and statewide environmental compliance programs
- to be monitored by an independent court appointed monitor and
- Be regularly and independently audited.
- Results of these audits
- will be made available to the public
- To ensure compliance with environmental laws and programs.
- The companies' compliance
- will be overseen by a court-appointed monitor
- who will report findings to the court and
- the U.S. Probation Office
- As well as ensuring public access to the information.

#### **Approximately**

- 108 million tons of coal ash are currently held in coal ash basins owned and operated by the defendants in North Carolina.
- Duke Energy Corp. subsidiaries also operate facilities
- with coal ash basins in South Carolina
- (approximately 5.99 million tons of coal ash),
- Kentucky (approximately 1.5 million tons of coal ash),
- Indiana (approximately 35.6 million tons of coal ash) and
- Ohio (approximately 5.9 million tons of coal ash).

#### **The companies also must meet the obligations**

- imposed under federal and state law
- to excavate and close coal ash impoundments at the
- Asheville,
- Dan River,
- River bend, and
- Sutton facilities.

**Additionally, at the insistence of the United States,**

- **The holding company Duke Energy Corp.**
- **has guaranteed the payment**
- **of the monetary penalties and**
- **The performance of the nationwide and statewide environmental compliance plans.**

**The criminal investigation was conducted by the**

- **EPA-CID,**
- **EPA-Region 4,**
- **EPA-OIG,**
- **IRS-CI and**
- **NC SBI**
- **with assistance from the FBI and**
- **The Department of Defense Criminal Investigative Service.**

**Source: U.S. EPA**

**Globewater, AB on site Discovery Process Documents utilizing**

- Digital Infra Red Satellite Reconnaissance Photos, for the scientific creation of a PMO Baseline against which WIP-Work In Progress in Remediations can be scientifically measured on a daily basis
- Aerial Drones to map the contaminated areas footprint,
- GI-Ground Imaging,
- GPR-Ground Penetrating Radar,
- GPs to monitor presence of industrial pollutants down 150.0'
- documenting in 256 color
- 3-D subterranean mapping of the extent, depth of the leaching process contaminating the Power Generating Industrial sites and the massive storage of flu ash.

**Globewaters proven in-the-field proprietary methods, procedures ECOSOIL, SORBUS, are utilized in the Discovery Process Phase to**

- ID, document, measure, contain,
- cleanse, measure daily residual levels of industrial toxins
- Such as Sulphur, Mercury, Acids, Heavy Metals, Micro Particulates, Polymers, Industrial Paint Chips
- To remove the industrial toxins, wastes from Fly Ash fields,

**Globewater, AB takes an**

- Measured, engineered, scientific, holistic approach, that is achieves quantifiable results
- immediate, short term, intermediate term and long term
- utilizing both pro-active, passive, short term and long term reclamation processes

- each designed to ID, leach out the harmful by products of a "witches brew of contaminates" that emerge as direct result of the seasonal impacts, of sun, snow, rain's impacts on the acres of fly ash left out in the seasonal elements.
- For additional information on GlobeWater, SB proven industrial scale cleansing of ground surfaces and subterranean leaching into the soils down to 150.0' all recorded, documented utilizing
- GI- Ground Imaging, GPR- Ground Penetrating Radar

## **Globewater, AB Strategic Objectives:**

### **Domestic US Strategies**

- **Formally establish US Chartered Corporation with the strategic business objectives of marketing and selling to**
  - the US Federal Government US EPA, DOD, Bureau of Mines, BIA-Bureau of Indian Affairs, Army Corps of Engineers, Interior Dept, Dept of Agriculture, ICC, Leaky subterranean pipe infrastructure carrying Crude, Oil, Gas, Refined Oil, Gas, Diesel Fuels, Gasoline, Jet Fuels, Naphtha, Drinking Waters, Raw Sewerage, Chemicals
  - 50 State Gov't EPA's, Public Works, Leaky subterranean pipe infrastructures
  - Private Sectors, Oil, Gas, Fracking, Leaky pipes, Private Water Companies, reclamation, restoration of former Oil Refineries, Chemical Plants, Car Assembly Plants, Detroit, Michigan, Gary, Indiana, Pittsburgh, PA. Tarry Town, NY, Philadelphia, PA

### **International Strategies**

There are 200+ nation states in the world.

- Globewater, AB USA plan is to Internationally Franchise 6-10 Globewater, AB Patented, TM franchises Globally @USD\$10,000,000.+ per franchise
1. Western Hemisphere
    - North America
    - Central America, Caribbean
    - Latin America
  2. Europe
    - EU
    - Eastern Europe
    - FSU
  3. MEA-Middle East Africa
    - Middle East
    - Africa
  4. SW Asia
  5. Asian Basin
    - SE Asia
    - PRC
    - Japan
    - Korea

- Taiwan
- Brunai
- Indonesia
- Philippines
- Australia-NZ
- Oceania

## FY 2015-2020-Globewater, AB's Global Corporate Business Strategies

### Expanding Globewater, AB Technical Functionality, Market Share, Profitability

- Globewater, AB is currently in the process of strategically networking capitalizing on their 30+ years of professional contacts within the Swedish, Scandia League, EU, and Global Patent, TM Communities,
- To negotiate with the current patent holders, for Globewater, AB to become their technical Patent, TM Global Representative, on a project-by-project basis.
- **Similar to a Manufacturer's Representative, retained patent clients would be asked contribute to Domestic, International Marketing expenses, Lobbyist Expenses, Web Site Development, Technical Seminars, preparation of Pro-Forma Discovery Papers for VC's, 3<sup>rd</sup> Party Investors**
- When Globewater, AB wins a contract utilizing any of these represented Patents, TM, then Globewater, AB will pay those selected patent holders for the program, a percentage (%) of the daily billing rates, dependent upon how much each selected patent, TM adds to the ROI, ROA, profitability, productivity, efficiency of each of the reclamation programs, managed by Globewater, AB. Management teams.
- Globewater, AB can also offer to both represent these diversified patent holders and sell their patent rights globally or Globewater, AB once it is experiencing positive cash flows could opt to buy some or all of these Patents, TM for its own operational and franchising uses.