

Oil spills cleaning and Plastic recovery from water basins with energy production

Sofia - 2017

The Challenge

- Clear and Present Danger to the environment and health
- Economic losses
- Social problems



8 million metric tons of plastic entering the oceans yearly

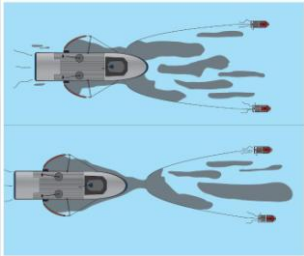


1.3 million gallons (4.9 million liters) of petroleum spilled into US waters from vessels and pipelines in a typical year



The Solution

Equipping a collector vessel system with
sludge oil or plastic convertor unit



Upgrade of a collector vessel with booms, attached to
remote-controlled mini-tugs



Equipping the vessel with on-board sludge and plastic
converter with a link to a feeder-extractor

The Solution-2

Advantages

- Full cycle of cleaning and converting
- Environment-safe conversion into usable products:
 - Gas -- on-board heat/electricity production
 - Gas -- on-board LPG and CNG processing for transportation for further use
 - Oil -- stored as precursor for advanced chemical products and energy carrier
 - Electricity for own use
- Autonomous operation
- Any organic waste could be treated with small or no adaptation of the system