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# The Flow Of Energy

A GREEN TECHNOLOGY BREAKTHROUGH

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**Company Profile**

Eflux Singapore Pte Ltd, a wholly owned subsidiary of Hyflux, is set up as a business unit to focus on energy-related activities.

Eflux identifies the need for environmental technologies that recover valuable resources and ensure sustainable development. Eflux aims to solve the world's energy problem by recycling used oil while ensuring minimal environmental impact.

**CRUDE OIL**

**BASE OIL**

**LUBRICANT**

**USED OIL**

**RECOVERED  
BASE OIL**

Our first commercial facility located in Singapore commenced its operations in 2006. Eflux is also building regional used oil recycling centres in other countries, including China, India, Philippines, Saudi Arabia, and Vietnam.

**Used Oil**

Typically, lubricants contain around 70 to 90 per cent of base oil and 10 to 20 per cent of additives. Lubricants, when used, will lose their effectiveness over time as additives degrade and contaminants build up. With Hyflux Advanced Membrane System (HAMS), the base oil can be effectively recovered from the used oil.

**Benefits of HAMS**

- Removing of contaminants in used oil and recycling it into high-value recovered base oil
- Recycling of used oil helps to counter diminishing global resources and complements virgin base oil
- Collecting and recycling of used oil aid in the reduction of environmental damage, thereby contributing to a cleaner environment

**HYFLUX ADVANCED MEMBRANE SYSTEM (HAMS)**

**Hyflux Advanced Membrane System (HAMS)**

The main Research and Development (R&D) centre is based in Singapore. It is the largest R&D facility in Asia, outside of Japan. Through our R&D efforts, HAMS was developed as a "green" solution and is adopted to recover base oil from used oil.

