

Producing hydrotreated vegetable oil as an end product

With companies worldwide having to reduce their carbon emissions to reach net-zero targets, sustainability and renewable energy are high on most agendas right now. But the problem most businesses are facing is how and what low-carbon alternatives to switch to.

One such alternative is hydrotreated vegetable oil, or HVO, as it's known.

What is HVO and what are the benefits?

Hydrotreated vegetable oil is a low-carbon diesel made from:

- Used cooking oil
- Residue animal fats from food processing
- Tall oil
- Non-food grade crops

HVO is considered a 'paraffinic fuel' and has almost zero sulfur or aromatic content. HVO can cut carbon emissions by up to 90%.

It's also fully interchangeable with conventional diesel, so you can mix it at any percentage without damaging engines or machinery.

Producing HVO as an end product

The exciting thing about hydrotreated vegetable oil is that demand is set to increase over the coming years as nations and business owners look for ways to reduce carbon emissions. Yes, electric cars might be one answer, but HVO is another — which means starting production now will put many suppliers first in the queue when demand really increases.

But before you can produce hydrotreated vegetable oil as an end product, first you need to understand the six-step refining process, which consists of:

- 1. Crude oil filtration:** to remove solids and strains following seed crushing and plastics from animal fat and frying oils
- 2. Dewaxing:** to remove waxes
- 3. Degumming:** to remove phospholipids
- 4. Neutralising:** to remove free fatty acids
- 5. Bleaching:** to remove colour
- 6. Deodorisation:** to remove odour

Interested in improving your pre-treatment process for hydrotreated vegetable oil as an end product?

But unsure how or where to start?

Then maybe Amafilter® can help. With over 30 years in providing biofuel filtration solutions to companies across the world, amafilter® technology can be used to pre-treat vegetable oil, UCO and animal fat, removing or decreasing impurities before starting the transesterification or hydrogenation process.

Contact us today to see how we can help you start producing HVO as an end product. And the equipment you'll need to get started.



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