

Moscow State Regional University

**Shale oil: ecological
outcome of
profitable business**

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What is shale oil?

- Oil shales (light tight oil) - diverse fine-grained rocks, which contain refractory organic material that can be refined into fuels

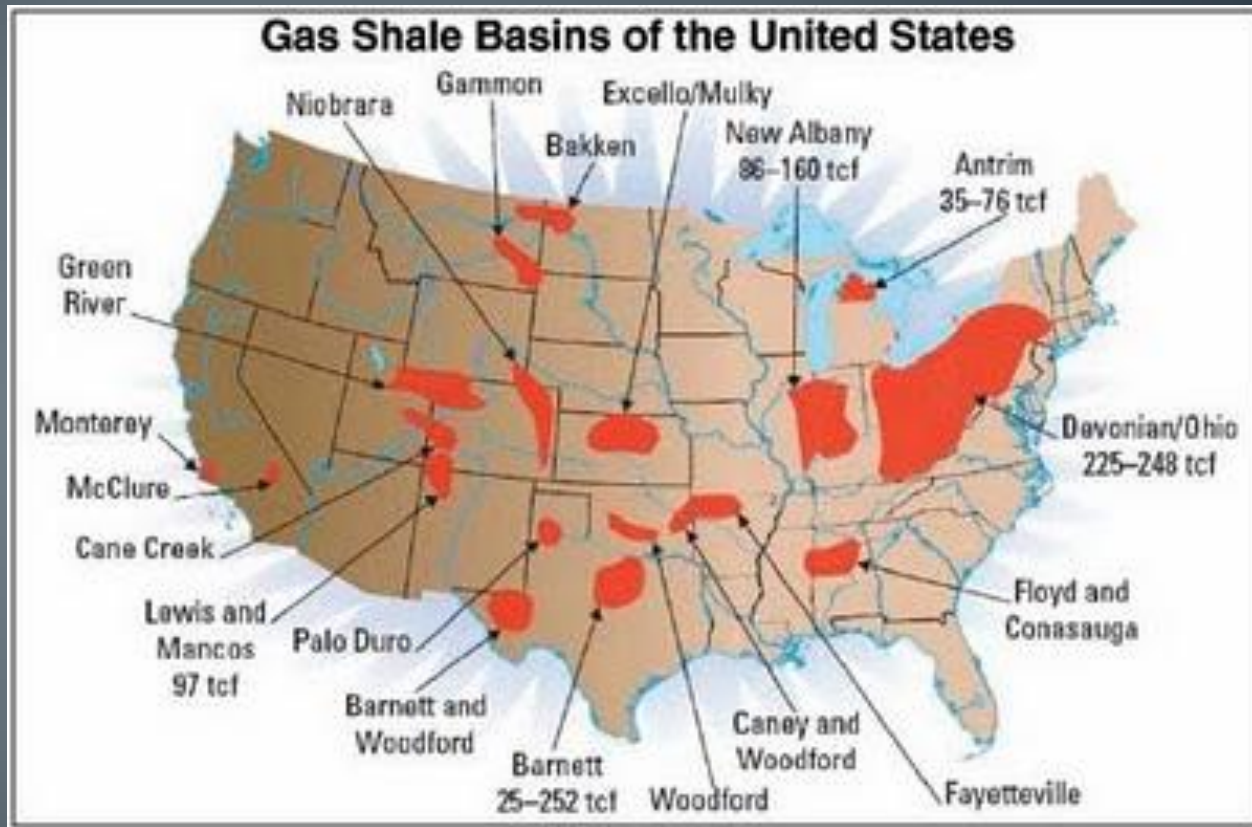


1930s – 100 units produced required 1 unit to be expended

2000s Crude oil – 11 units to 1 unit

Shale oil – 5 units to 1 unit

Shale oil basins in the USA

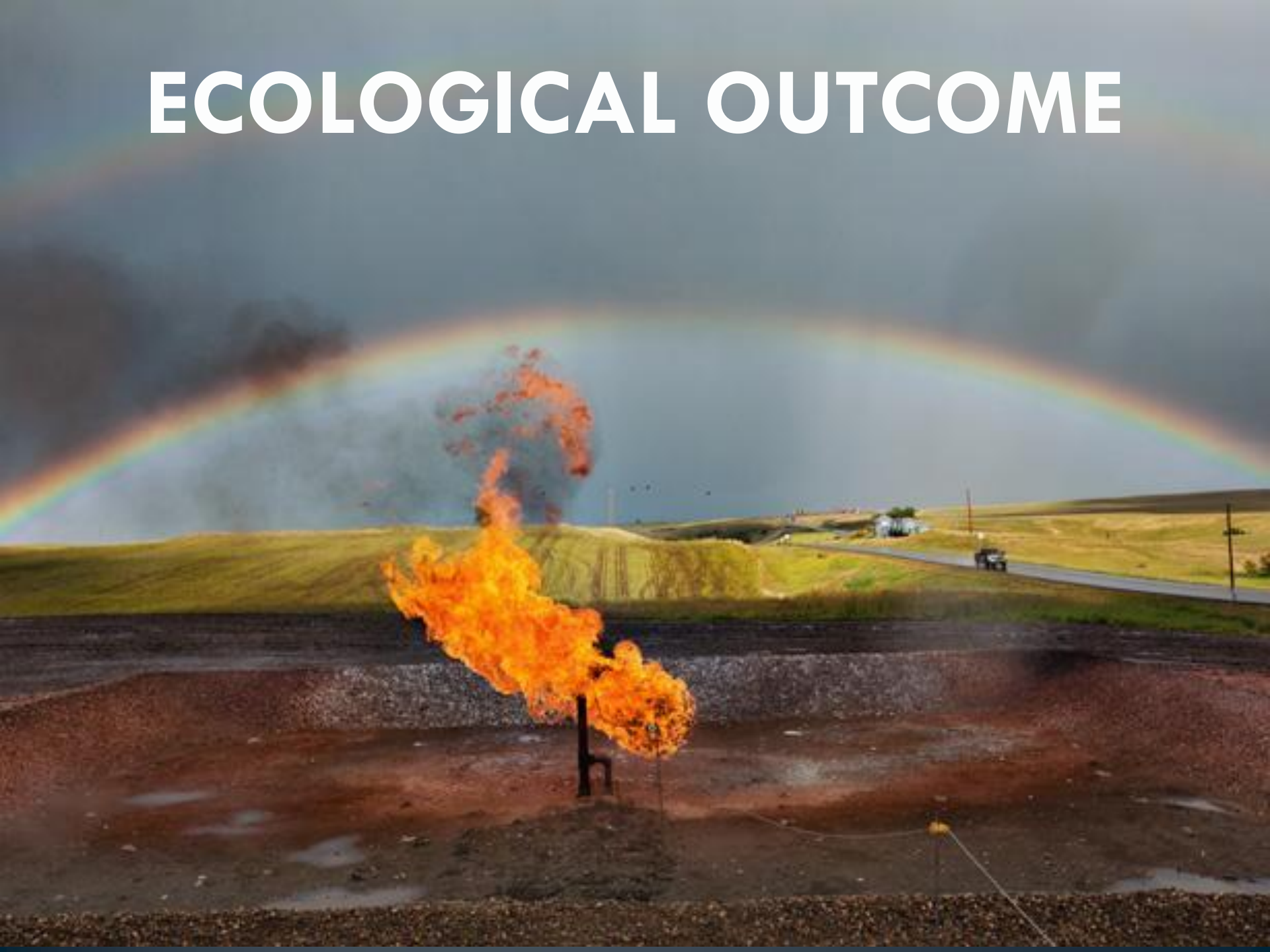


1970 – 9.6 m barrels/ day
2008 – 5 m barrels / day

Shale oil basins in Russia



ECOLOGICAL OUTCOME





**AFTER MINING THE LAND HAS TO BE
RECLAIMED**

**1 BARREL OF OIL SHARE PRODUCTION - 25%
GREATER VOLUME**



**OIL SHALE WOULD BE A HUGE WATER
CONSUMER**



- Main air pollution is caused by the oil shale fired power plants

Laws and shale oil

- 2011 – the UK moratorium
- 2013 – the USA Environmental Protection Agency proposed limits green-house emissions



The background image shows two oil pumpjacks in silhouette against a vibrant sunset sky. The sun is low on the horizon, creating a bright glow and casting long, wispy clouds. The pumpjacks are dark, with their long walking beams and counterweights clearly visible. The overall scene is industrial yet serene due to the natural lighting.

**If you have any questions:
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