

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

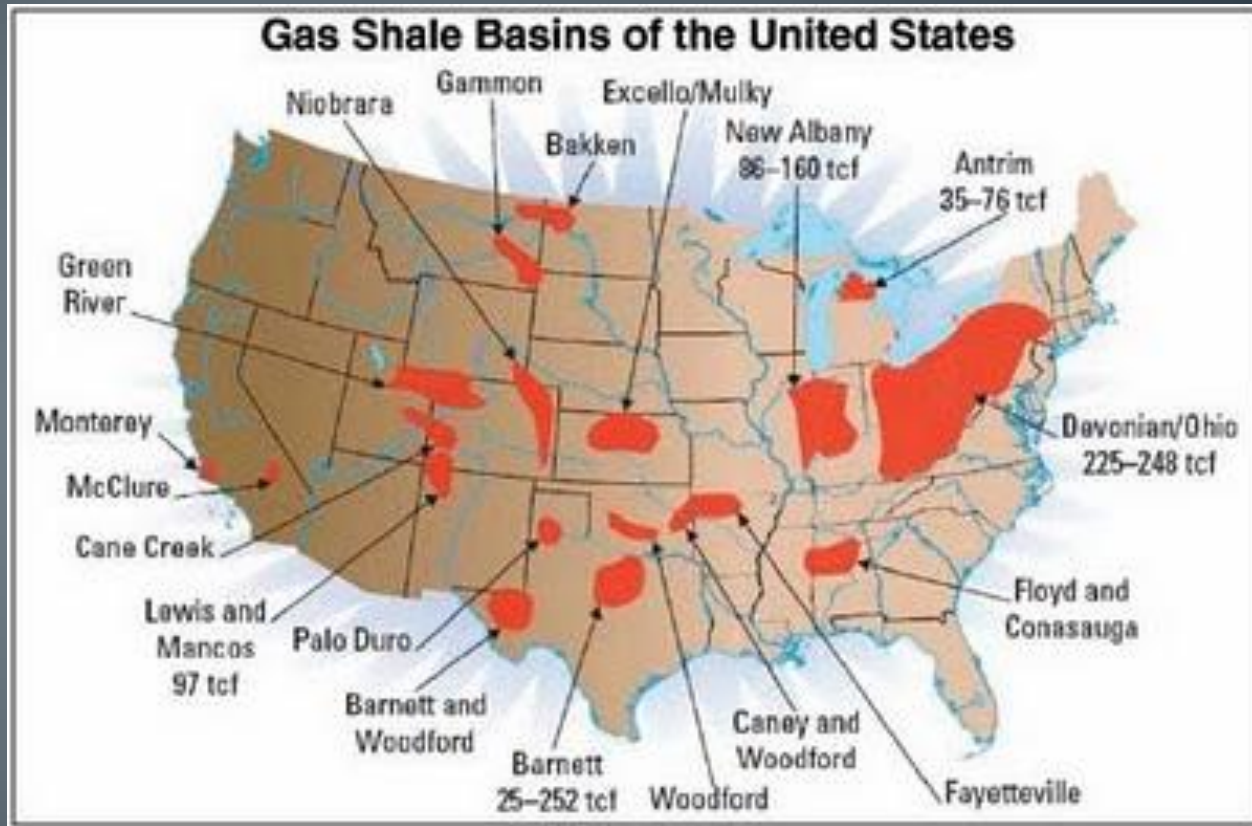


1930s – 100 units produced required 1 unit to be expended

2000s Crude oil – 11 units to 1 unit

Shale oil – 5 units to 1 unit

Shale oil basins in the USA

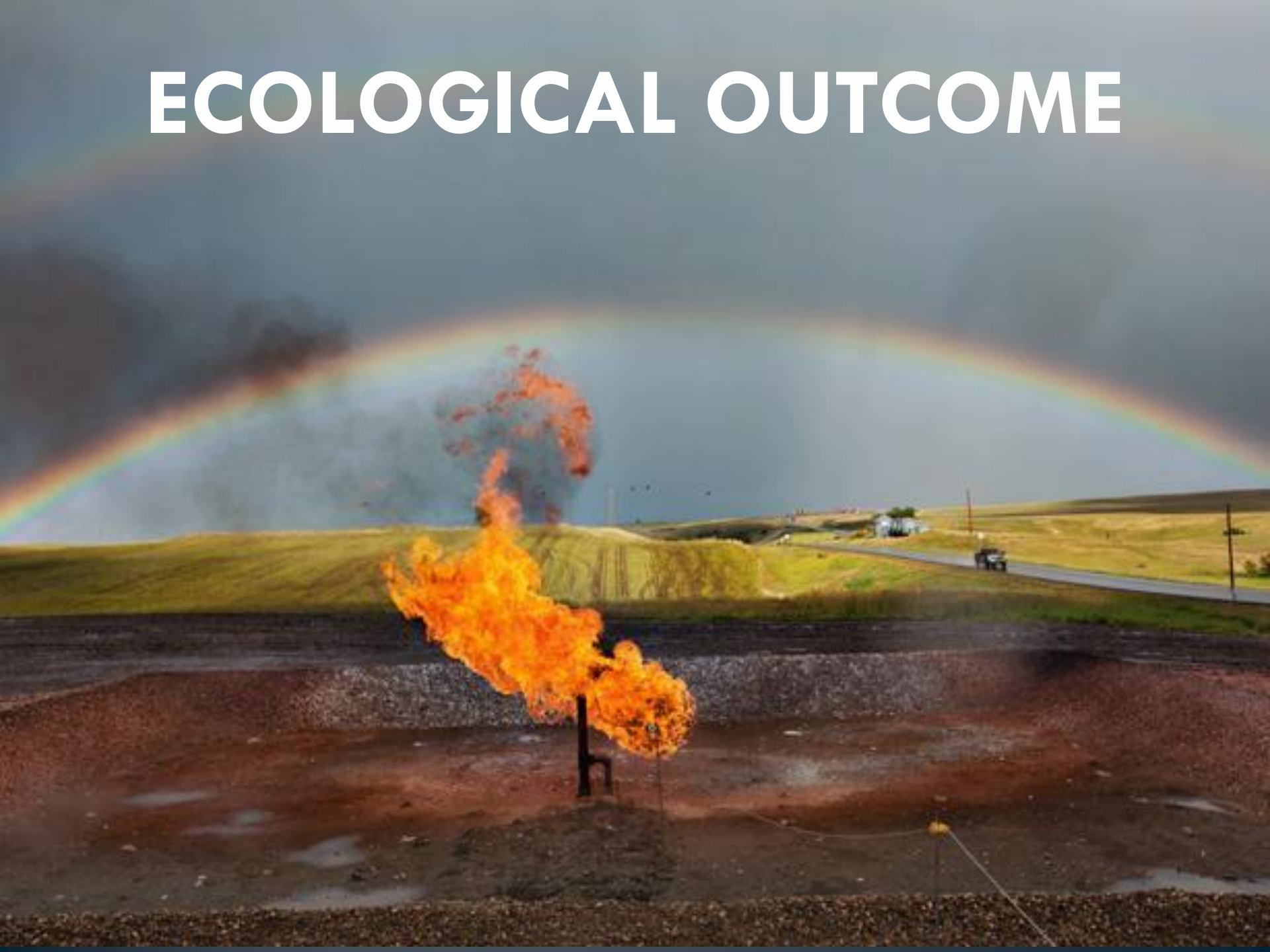


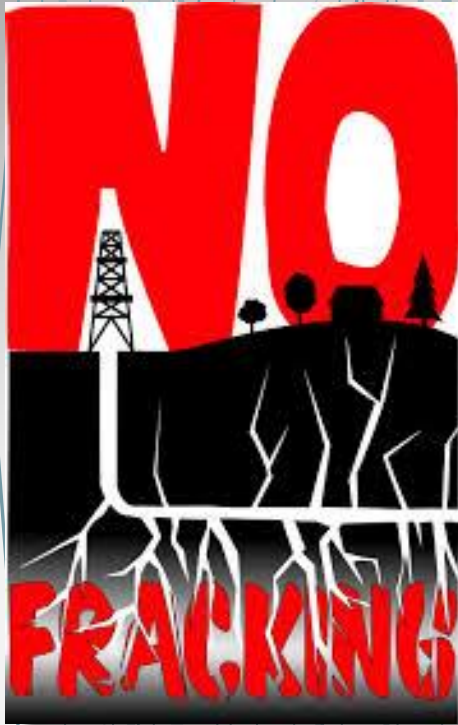
1970 – 9.6 m barrels/ day
2008 – 5 m barrels / day

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





**If you have any questions:
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