

**ENVIRONMENT AND PARKS**

*Emissions Management and Climate Resilience Act*  
SA 2003, c. E-7.8

**MINISTERIAL ORDER**  
43/2021

**TECHNOLOGY INNOVATION AND EMISSIONS REDUCTION REGULATION  
HIGH-PERFORMANCE BENCHMARK AND BENCHMARK UNIT ORDER**

I, Bev Yee, Deputy Minister of Environment and Parks, pursuant to section 6(2) of the Technology Innovation and Emissions Reduction Regulation, hereby make the Order in the attached Appendix, being the High-Performance Benchmark and Benchmark Unit Order.

DATED at the City of Edmonton, in the Province of Alberta, this 14 day of  
APRIL, 2021.



---

Bev Yee  
Deputy Minister

## APPENDIX

### TECHNOLOGY INNOVATION AND EMISSIONS REDUCTION REGULATION HIGH-PERFORMANCE BENCHMARK AND BENCHMARK UNIT ORDER

#### Definitions

1. In this Order:

- a. "crude canola oil" means oil produced from the low erucic acid oil-bearing seeds of *Brassica napus*, *Brassica rapa*, or *Brassica juncea* species, and the associated solid residue resulting from processing of the seeds;
- b. "department" means the Department of Environment and Parks;
- c. "ethyl alcohol" means un-denatured food grade alcohol which is intended for human ingestion, including liquor and spirits, but excluding beer and wine;
- d. "granular urea" means a white solid nitrogen-based fertilizer having the molecular formula  $\text{CO}(\text{NH}_2)_2$  that is produced from the reaction of ammonia and carbon dioxide to form ammonium carbamate, which is converted to urea and granulated;
- e. "regulation" means the Technology Innovation and Emissions Reduction Regulation;
- f. "sub-bituminous coal" means coal that is recovered or obtained from a coal mine located in the Plains Region as defined in the Natural Regions and Subregions of Alberta published by the department, as amended or replaced from time to time.

#### High-performance Benchmark and Benchmark Unit

2. A product listed in the Table below has the respective high-performance benchmark and benchmark unit listed in the Table.

**TABLE**

Product	High-performance Benchmark (CO <sub>2</sub> e tonnes per benchmark unit)	Benchmark Unit
crude canola oil	0.1141	tonne
ethyl alcohol	0.001402	litres absolute alcohol
granular urea	0.2493	tonne
sub-bituminous coal	0.01189	tonne

**Substitution of High-performance Benchmark and Benchmark Unit**

3. The following high-performance benchmark and benchmark unit is substituted in place of the product's high-performance benchmark and benchmark unit listed in the Table in Schedule 2 of the regulation.

<b>Product</b>	<b>High-performance Benchmark (CO<sub>2</sub>e tonnes per benchmark unit)</b>	<b>Benchmark Unit</b>
bituminous coal	0.07053	tonne