

Washington State Fuel Mix Disclosure

OVERVIEW

Greg Nothstein

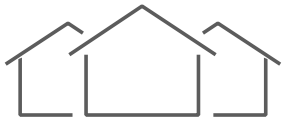
FUEL MIX DISCLOSURE PROGRAM

JULY 15, 2020

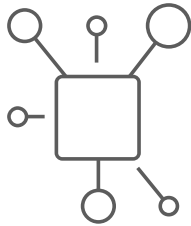


Washington State
Department of
Commerce

We strengthen communities



HOUSING
HOMELESSNESS



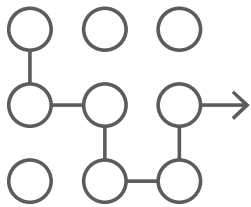
INFRASTRUCTURE



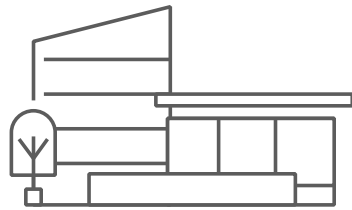
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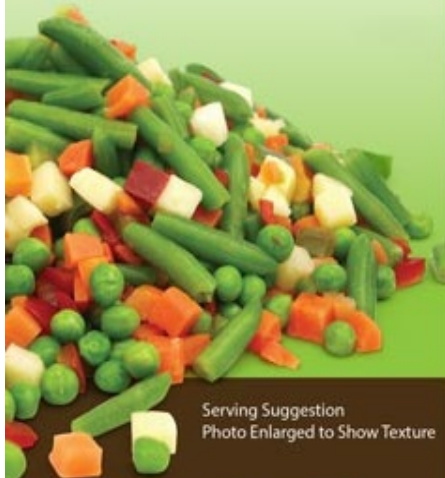


What is Fuel Mix Disclosure

- ***RCW 19.29A***
- Enacted in 2000, updated in 2019
- Requires utilities to report the fuel characteristics of electric power used to serve their customers
- Directs Dept. of Commerce to estimate the fuel mix for each utility
- Commerce produces aggregate information in a state-level report, which includes state-level emission information
- Commerce provides utility-level fuel mix reports which is used to inform utility customers

Fuel Mix Is Meant to Inform Consumers – Reasonably accurate

Vegetable Mix



Serving Suggestion
Photo Enlarged to Show Texture

Nutrition Facts

Serving Size 1/4 cup (20g)
Servings Per Container 34

Amount Per Serving

Calories 70 Calories from Fat 5

% Daily Value*

Total Fat	0g	0%
Saturated Fat	0g	0%
Trans Fat	0g	
Cholesterol	0mg	0%
Sodium	50mg	2%
Total Carbohydrate	15g	5%
Dietary Fiber	1g	4%
Sugars	8g	

Protein 3g

Vitamin A 80% • Vitamin C 80%
Calcium 4% • Iron 30%

* Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs:

	Calories:	2,000	2,500
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Dietary Fiber		25g	30g

Calories per gram:

Fat 9 • Carbohydrate 4 • Protein 4



INGREDIENTS

Vegetable Blend (Freeze Dried Corn, Carrots, Peas, Red Bell Peppers & Tomatoes).

Allergens: None.

This product is produced on equipment that also processes products containing Egg, Soy, Milk, Tree Nuts and Peanut.

...ts water to 1
...w Freeze Dried
...e for about 20
...hydrated.
...table Mix can be
...mbination with
...y, soups and more.
...10 years in a sealed
...orber included) un-
...ons (cool, dry place).

Lighting Facts

Per Bulb

Brightness 1750 lumens

Estimated Yearly Energy Cost \$3.13

Based on 3 hrs/day,
11¢/kWh. Cost
depends on rates and use.



Life 7.3 years

Based on 3 hrs/day

Light Appearance



Energy Used 26 watts

Contains Mercury

For more on clean up
and safe disposal,
visit epa.gov/cfl.

Life 8,000 hours



Fuel Mix: Categories of Electric Power

- Electric power consumption described by generation fuel category:
 - Electric power traceable to specific power plants and fuel sources: owned or contracted power plants
 - Bonneville Power Administration, marketed power: from approximately 40 facilities in the Pacific Northwest. BPA is treated as a generating fleet (ACS).
 - Unspecified power resources, where the generation fuel is not known
 - Smaller distributed generation claims aggregated by fuel category: wind, solar, biomass, etc.
 - Renewable Energy Certificates: Environmental attributes of renewable energy. Primarily RECs used for RPS compliance.



Fuel Mix: Worth mentioning

- Electric power consumption described by generation fuel category:
 - For reliability reasons utilities secure power resources in excess of load.
 - Average System Mix approach is employed to balance power resources with electric load: ASM is a proration methodology.
 - Non-discretionary power: BPA, renewables and RECs are given priority in the ASM proration.
 - Discretionary power: Proration of power from plants and market power
 - Commerce conducts a “Fuel Mix” type of analysis for OR Dept. of Energy
 - Also calculates a Net System Mix for ODOE: NSM is the fuel mix of unclaimed power in the NW Power Pool and a proxy for unspecified power



Fuel Mix Disclosure Data and Availability

- BPA power source & 100% BPA utility load data: early to mid June.
- OR and WA receive PNGC utility reports: June/July
- EIA form 860, utility and plant data: June
- eGrid plant and emission data: June/July, less critical data
- EIA form 923, generation and fuel inputs, early release: mid June
- Data portal, used by non-100% BPA utilities, variable timing
- Preliminary FM analysis late July, final review and product by early September



Fuel Mix Reporting Timeline

- Change in 2019 added unspecified power as a resource category, allowing for an earlier start date
- Start date limited by BPA, PNGC and EIA 923 data availability, which ranges from early to late June
- Commerce data portal (non-100% BPA utilities) can be opened in early June, and remain open for 4 weeks
- Follow-up with late reporting utilities, review reports correct errors, requires about 3 weeks
- Preliminary FM reports sent late July, final review and utility reports sent by September 1.

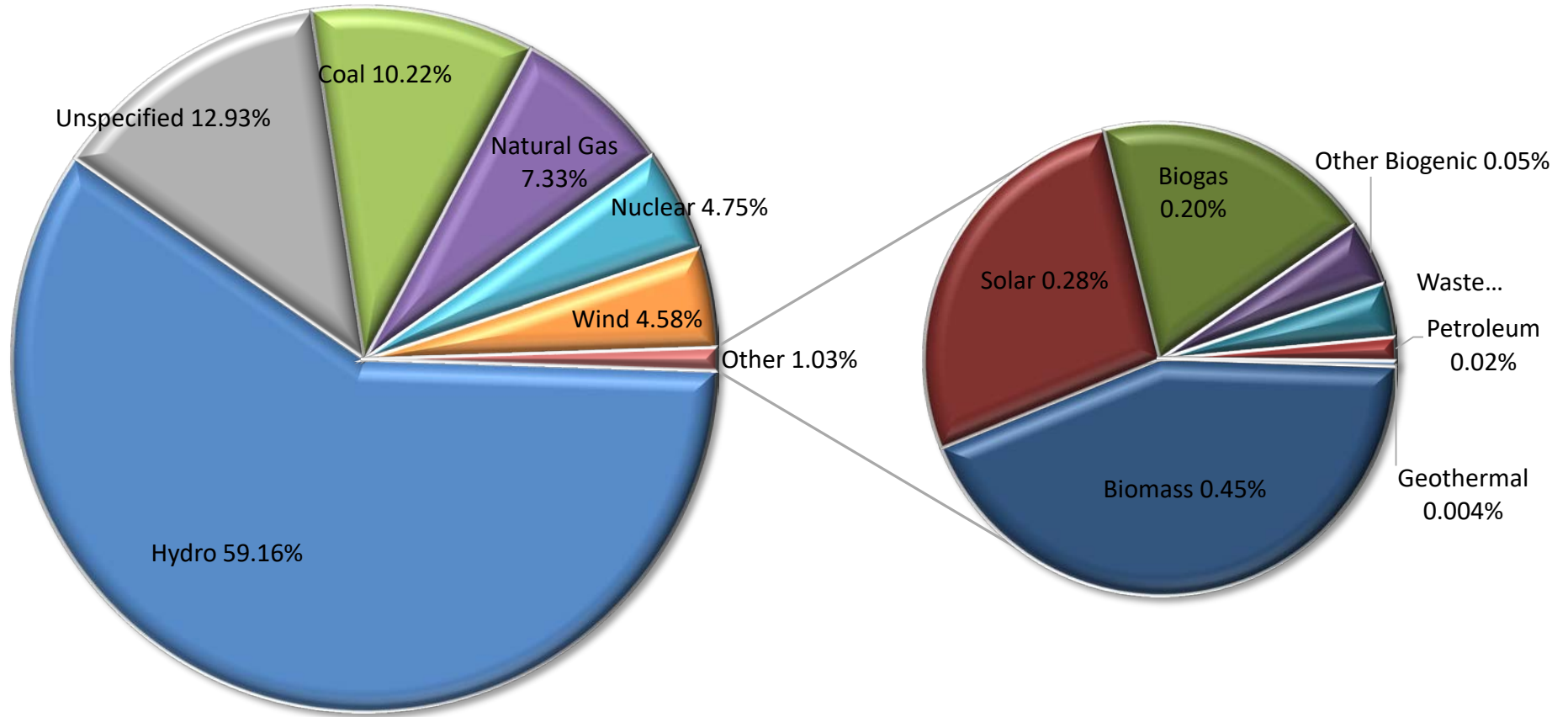


2019 Update: Unspecified Power and RECs

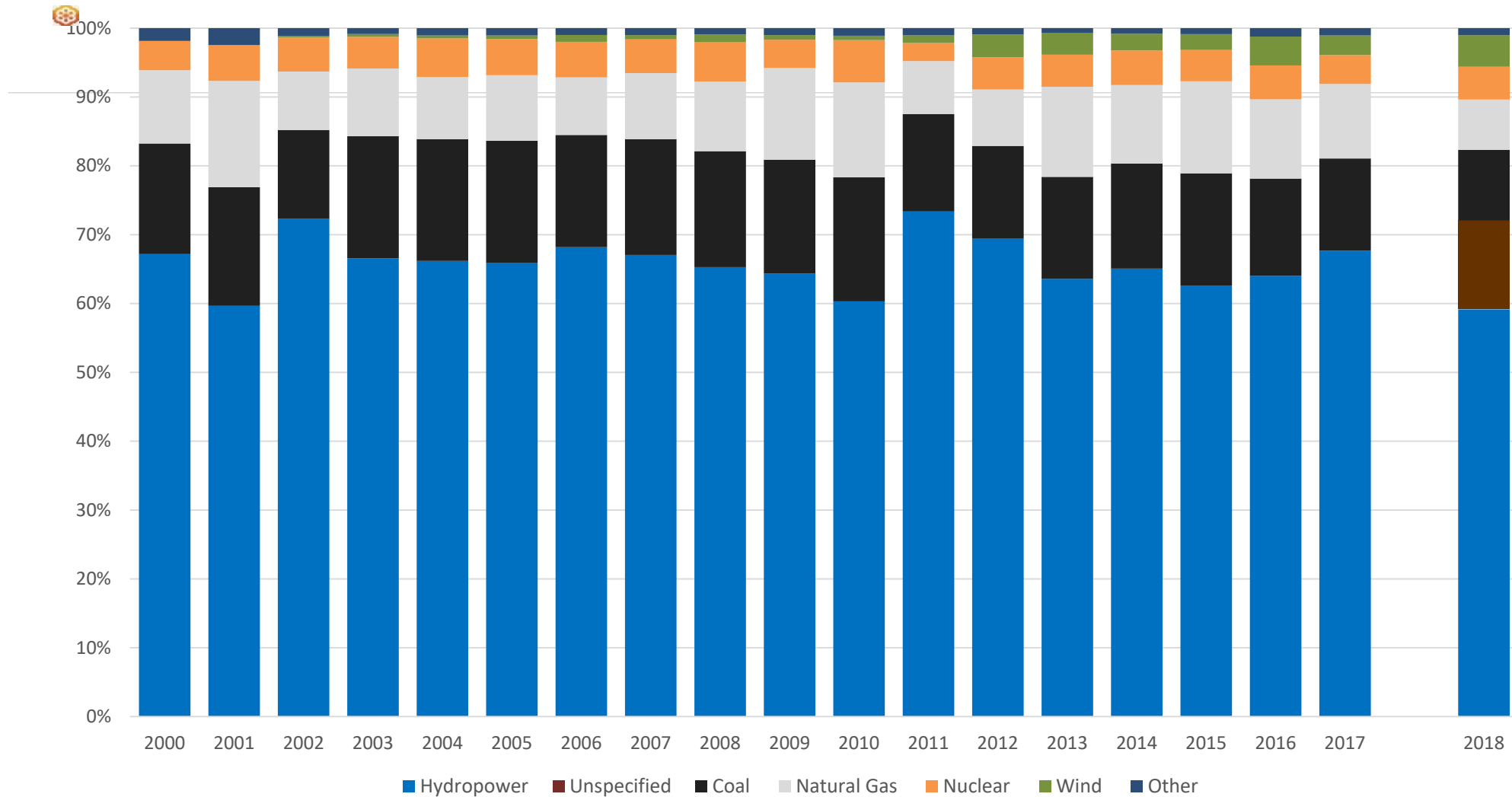
- Fuel mix reports the attributes of the electric energy delivered to customers
 - Not the attributes of energy produced by the utility
 - Energy without traceable generation attributes is unspecified power
 - 2019 Fuel Mix utility reports contain an unspecified resource category
 - Some definitions changed
- Renewable energy certificates are necessary to claim a renewable resource
 - Energy + REC = Renewable Energy
 - Energy without a REC is not renewable energy, becomes unspecified power
 - REC policy evolved in 2019: Unspecified Pwr. + REC = Renewable Energy



Washington Utility Aggregate 2018 Fuel Mix



Washington State Fuel Mix: 2000-18



Questions?

For more information:

Fuel Mix Disclosure: www.commerce.wa.gov/fmd

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