



BP 3511

Energy and Water Management

&

AR 7111

Evaluating Existing Buildings

Further Analysis



BP 3511

Energy and Water Management



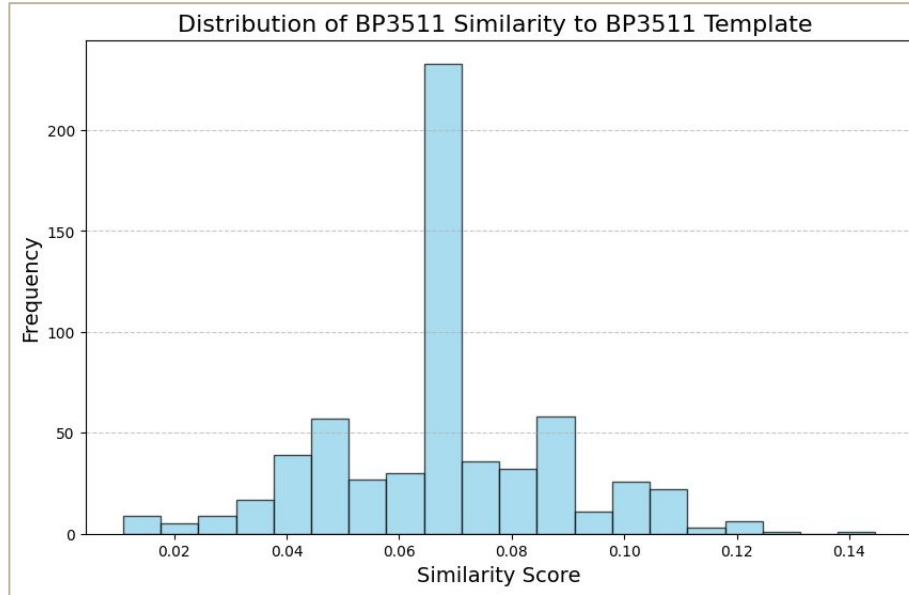
Board Policy 3511 Text Analysis

	District Name	School Board Policy Commitments Score (out of 3)	similarity_score
613	Conejo Valley Unified	3.0	0.144646
300	Placer Hills Union Elementary	3.0	0.124914
619	Washington Unified	3.0	0.123570
515	Vacaville Unified	3.0	0.123027
50	Black Oak Mine Unified	3.0	0.122559
...
421	Paso Robles Joint Unified	3.0	0.015676
334	San Juan Unified	3.0	0.014627
165	Downey Unified	0.5	0.013389
293	Tustin Unified	0.5	0.012205
283	Huntington Beach Union High	0.5	0.010939

** Used Cosine Similarity module to Compare School District Board Policy to Board Policy Template

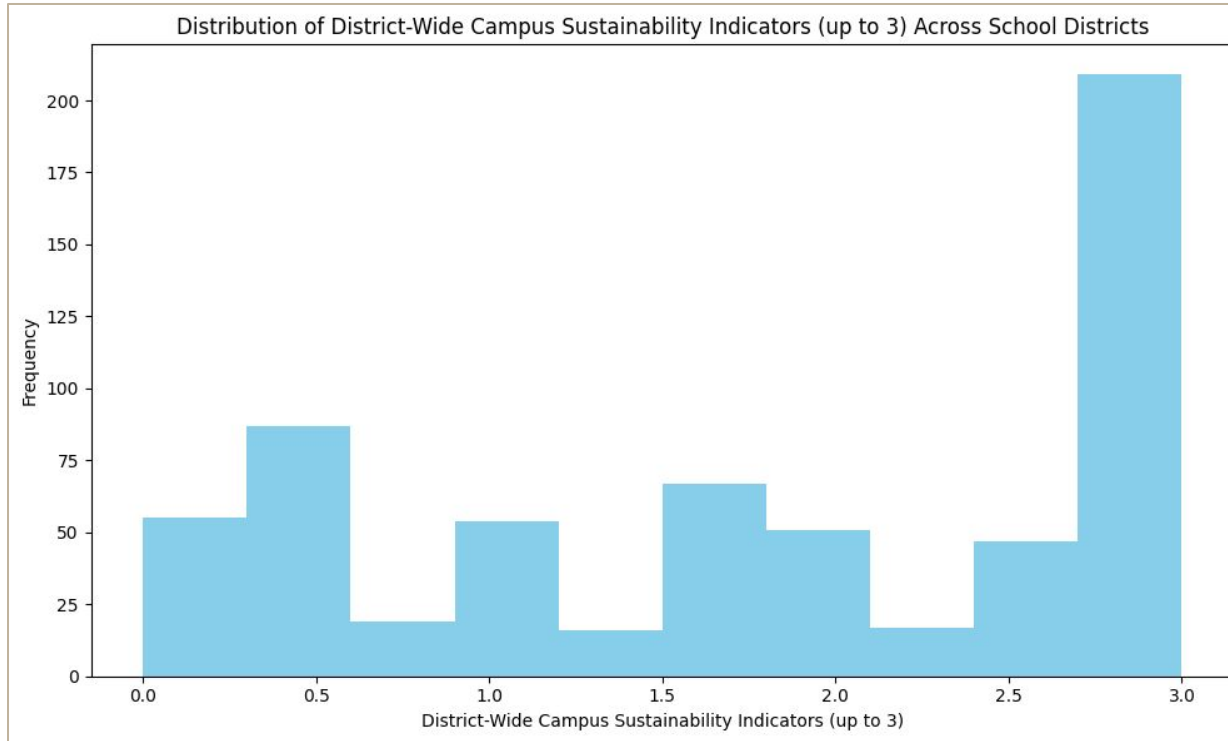


Distribution of BP3511 Similarity to BP3511 Template

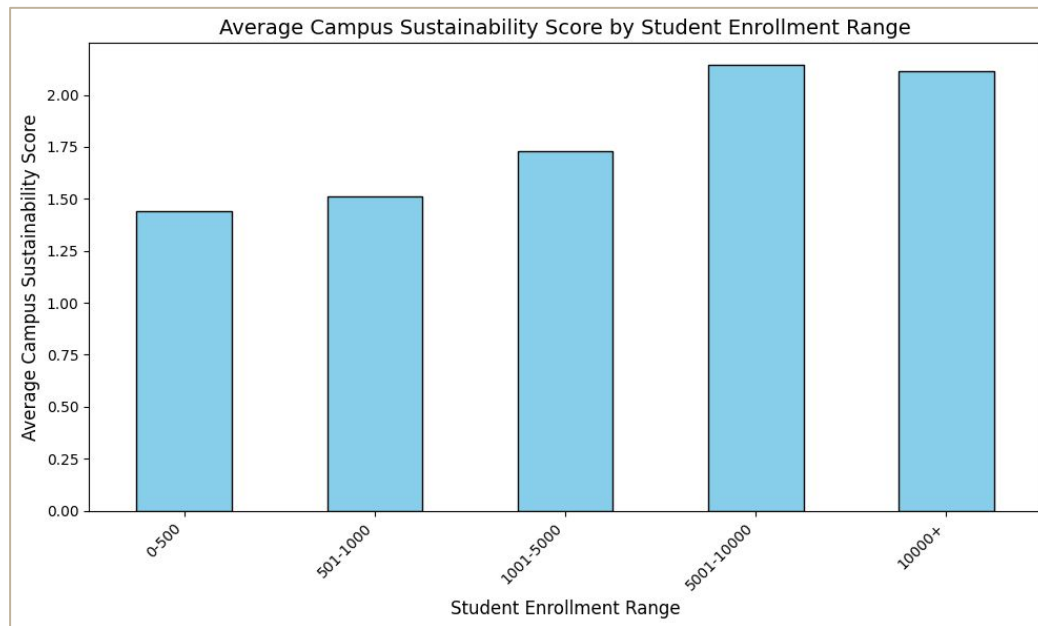


- Most board policies have a low-to-moderate similarity to the BP3511 template.

School Board Policy Campus Sustainability Scores (out of 3)

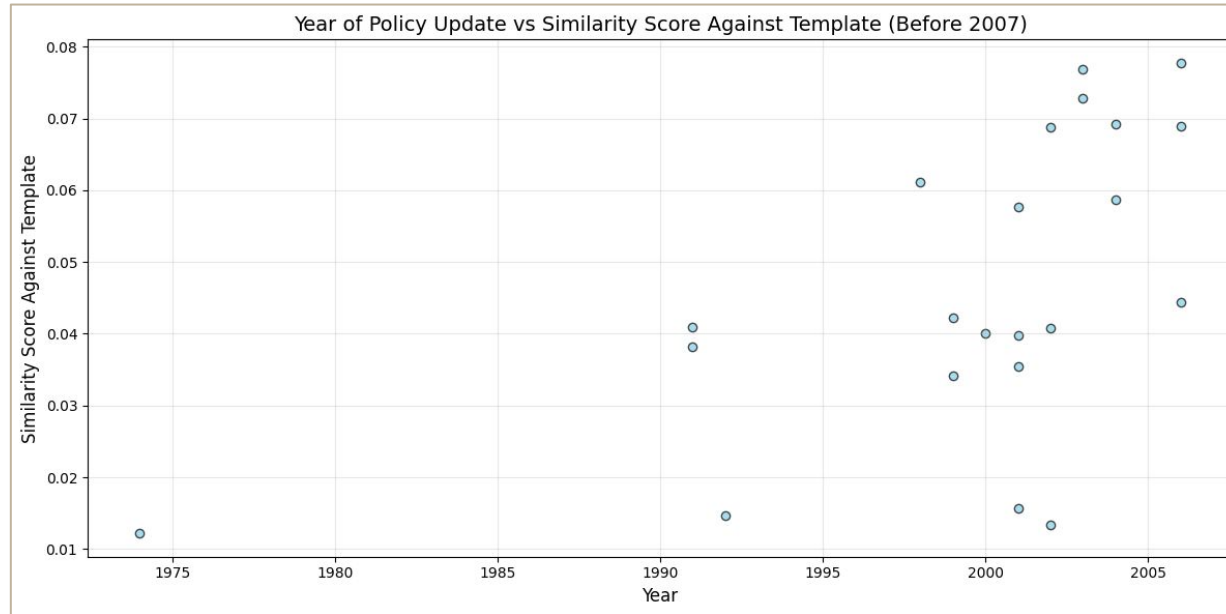


Are Lower Sustainability Scores Caused by District Size (or Student Enrollment)?



Average District-Wide Campus Sustainability Indicators (up to 3) Score by Student Enrollment Range:	
Enrollment Range	
0-500	1.440265
501-1000	1.513393
1001-5000	1.731760
5001-10000	2.142473
10000+	2.114173

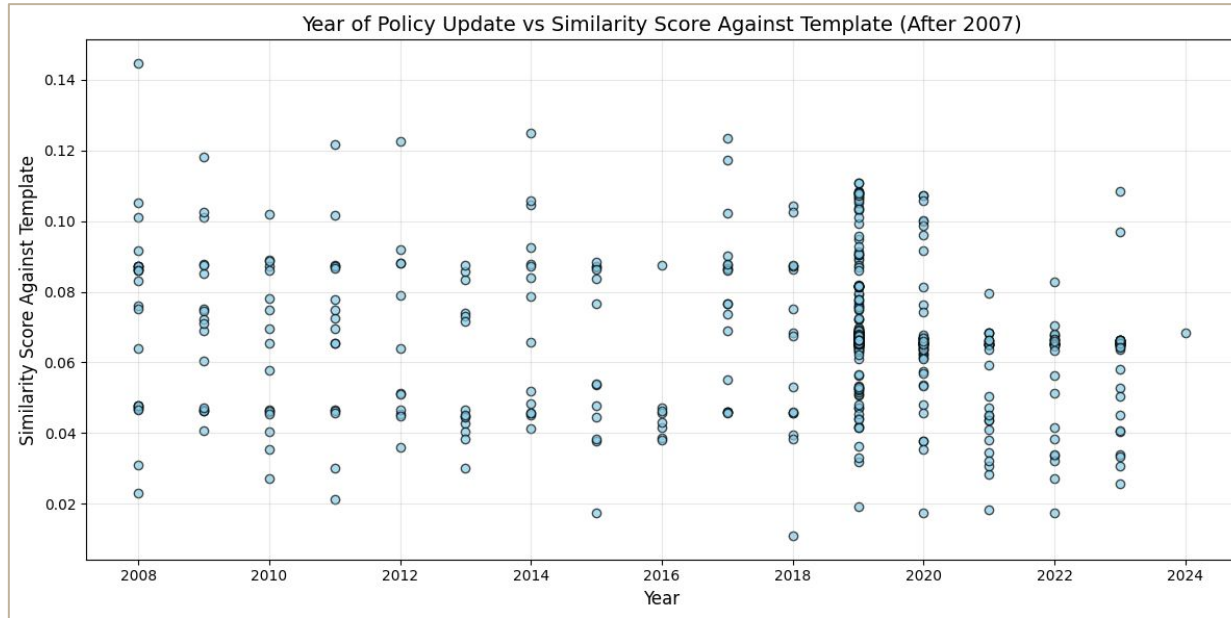
Do newer/updated policies that follow BP3511 template have a higher sustainability score?



The average sustainability score for policies updated before 2007 is: 2.25

** BP3511 Template was created in 2007**

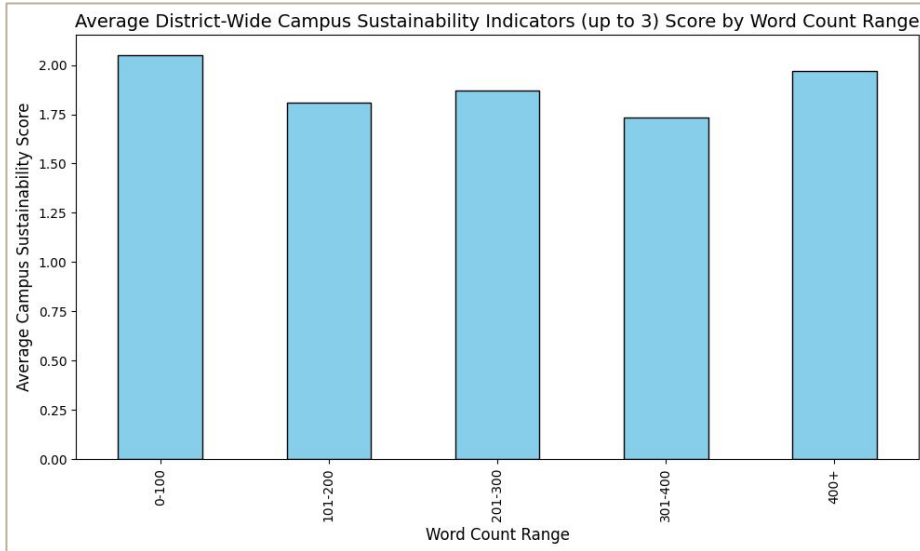
Do newer/updated policies that follow BP3511 template have a higher sustainability score?



The average sustainability score for policies updated after 2007 is: 1.79

- Sustainability score for schools decreased following the creation of the BP3511 template created in 2007

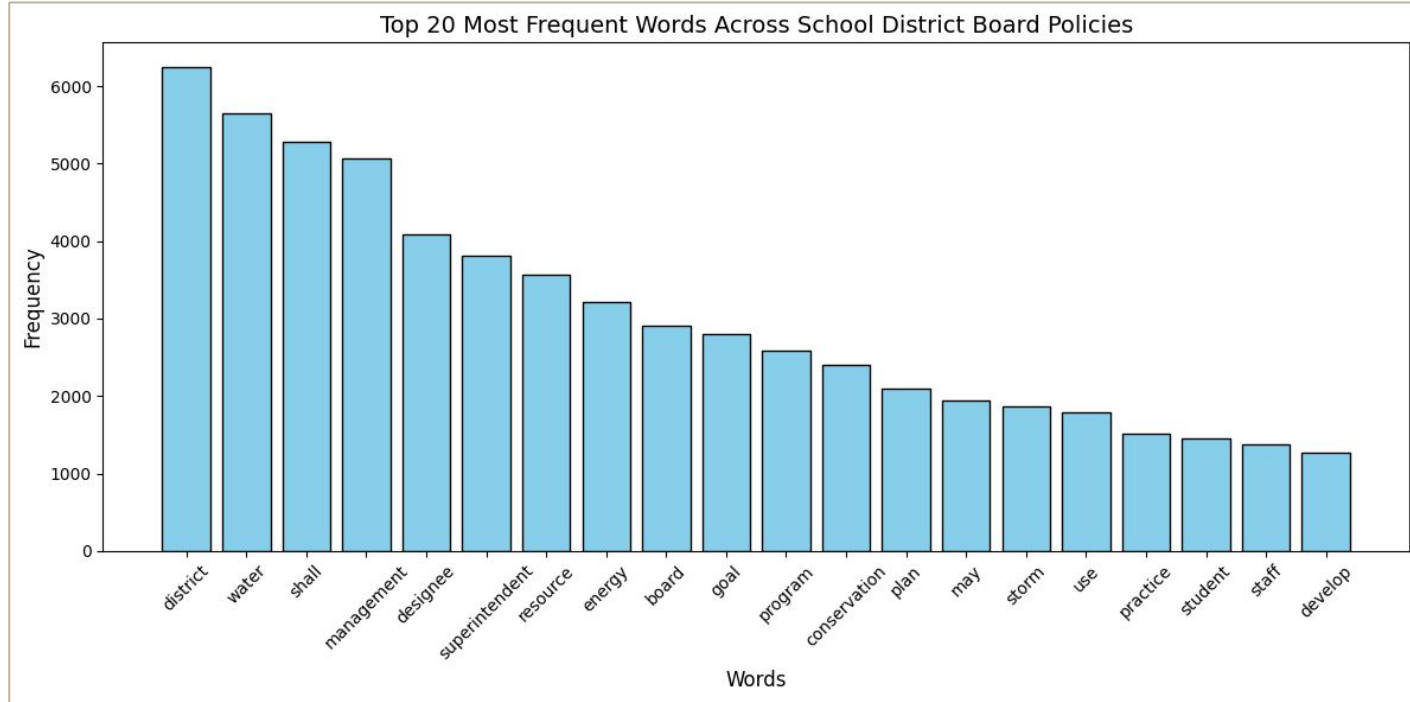
Does Word Count Affect Sustainability Score?



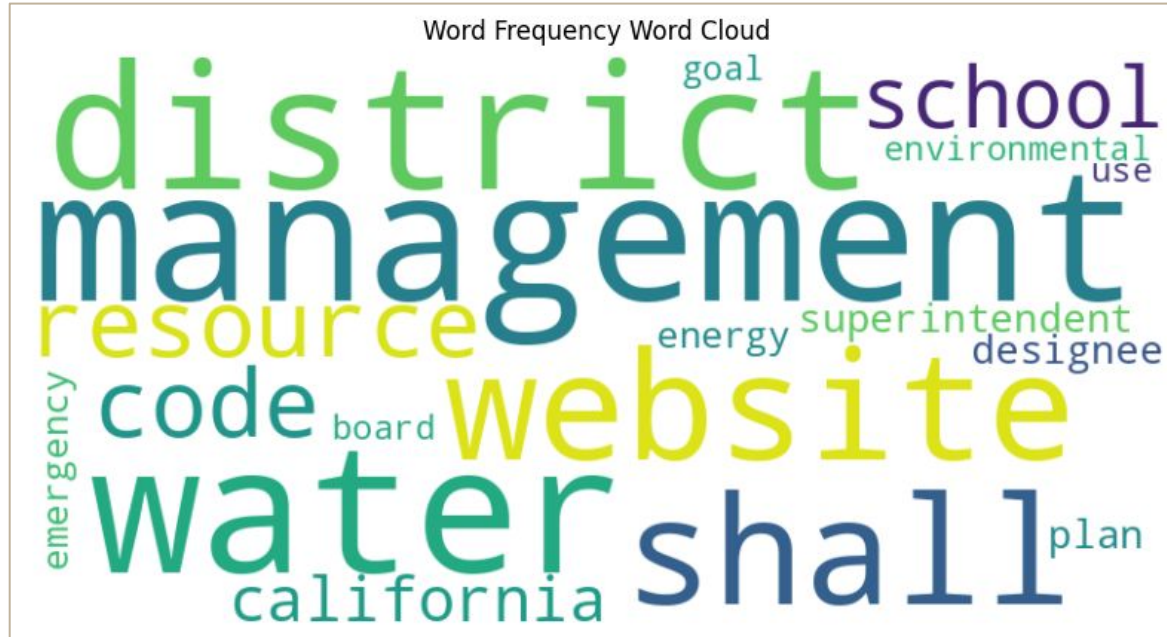
Average Campus Sustainability Score by Word Count Range:	
Word Count Range	
0-100	2.050000
101-200	1.808190
201-300	1.870690
301-400	1.735016
400+	1.970779

- **Word count does affect sustainability score(?)**
 - Word count and their sustainability scores vary, board policies between 100-400 words have lower scores in comparison to board policies with <100 or >400

Keyword Analysis



Keyword Analysis



**** General Board Policy (BP) Language Considerations:** Try to replace “may” with “shall” as often as possible. This provides a more authoritative and committed tone to the policy or regulation.”

Energy Efficiency Indicator

Number of policies containing the keyword(s) ['school energy conservation programs', 'energy-saving initiatives', 'energy efficiency']: 28

Total counts in the 'Energy Efficiency' column:

Energy Efficiency

1 16

0 12

Name: count, dtype: int64

Keyword occurrences:

'school energy conservation programs': 0

'energy-saving initiatives': 0

'energy efficiency': 47

Counts in the 'Energy Efficiency' column:

Energy Efficiency

0 295

1 278

- Energy efficiency was fulfilled by 278 school districts
 - No evidence of this indicator for 295 school districts
 - 1 = Yes
 - 0 = No

Energy Resilience Indicator

```
Number of policies containing the keyword(s) ['energy resilience', 'energy backup', 'renewable energy storage', 'renewable energy', 'energy storage']: 2
```

```
Total counts in the 'Energy Resilience' column:
```

```
Energy Resilience
```

```
0    1
```

```
1    1
```

```
Name: count, dtype: int64
```

```
Keyword occurrences:
```

```
'energy resilience': 0
```

```
'energy backup': 0
```

```
'renewable energy storage': 0
```

```
'renewable energy': 4
```

```
'energy storage': 0
```

```
Counts in the 'Energy Resilience' column:
```

```
Energy Resilience
```

```
0    405
```

```
1    168
```

- Energy Resilience was fulfilled by 168 school districts
 - No evidence of this indicator for 405 school districts
 - 1 = Yes
 - 0 = No

Water Conservation Indicator

```
Number of policies containing the keyword(s) ['water conservation in schools', 'school district water-saving', 'water efficiency educational institutions', 'water conservation', 'water efficiency', 'water-saving']: 61
```

```
Total counts in the 'Water Conservation' column:
```

```
Water Conservation
```

```
0    39
```

```
1    22
```

```
Name: count, dtype: int64
```

```
Keyword occurrences:
```

```
'water conservation in schools': 0
```

```
'school district water-saving': 0
```

```
'water efficiency educational institutions': 0
```

```
'water conservation': 120
```

```
'water efficiency': 4
```

```
'water-saving': 0
```

```
Counts in the 'Water Conservation' column:
```

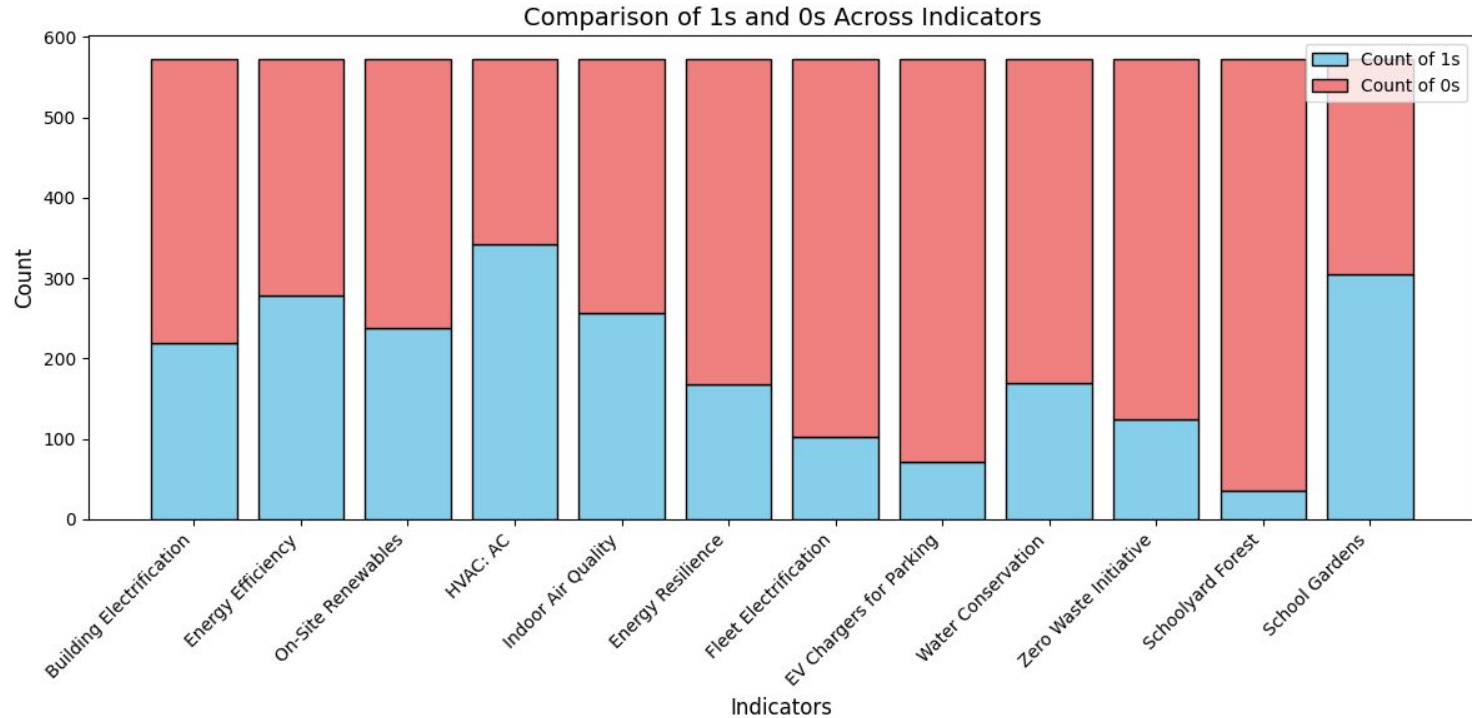
```
Water Conservation
```

```
0    403
```

```
1    170
```

- Water conservation was fulfilled by 170 school districts
 - No evidence of this indicator for 403 school districts
 - 1 = Yes
 - 0 = No

Indicator Summary

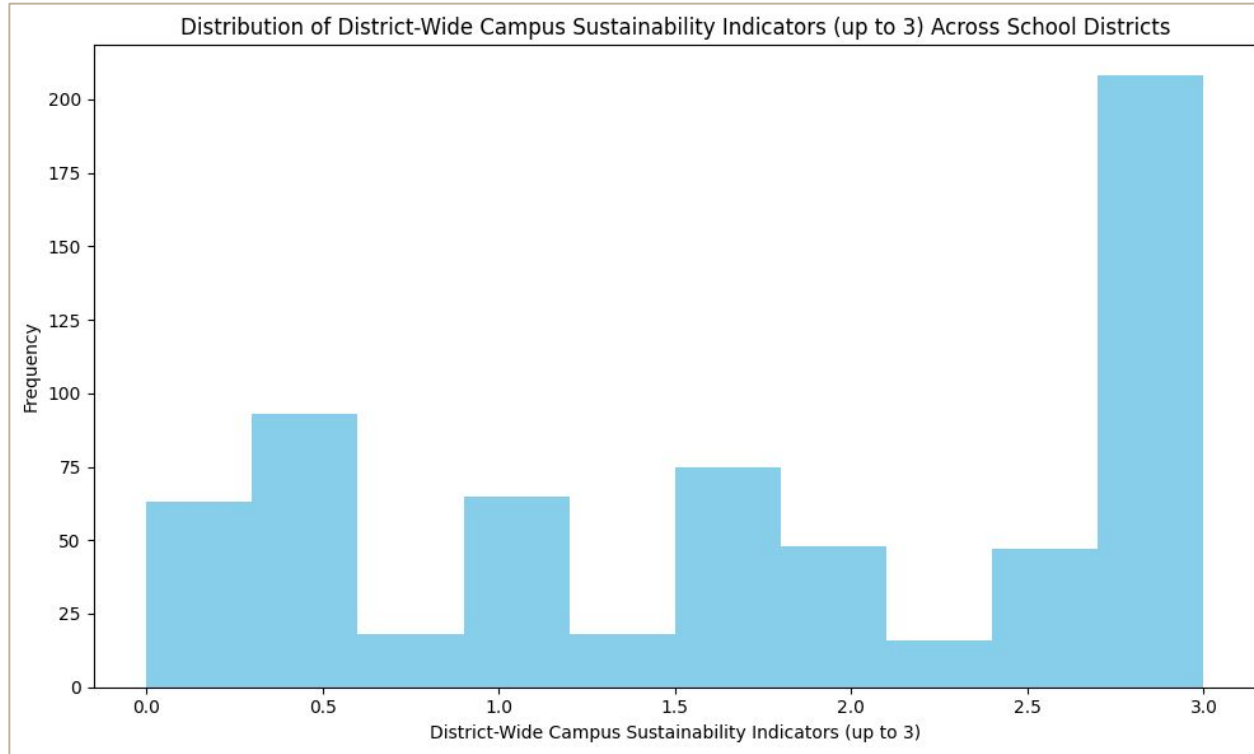




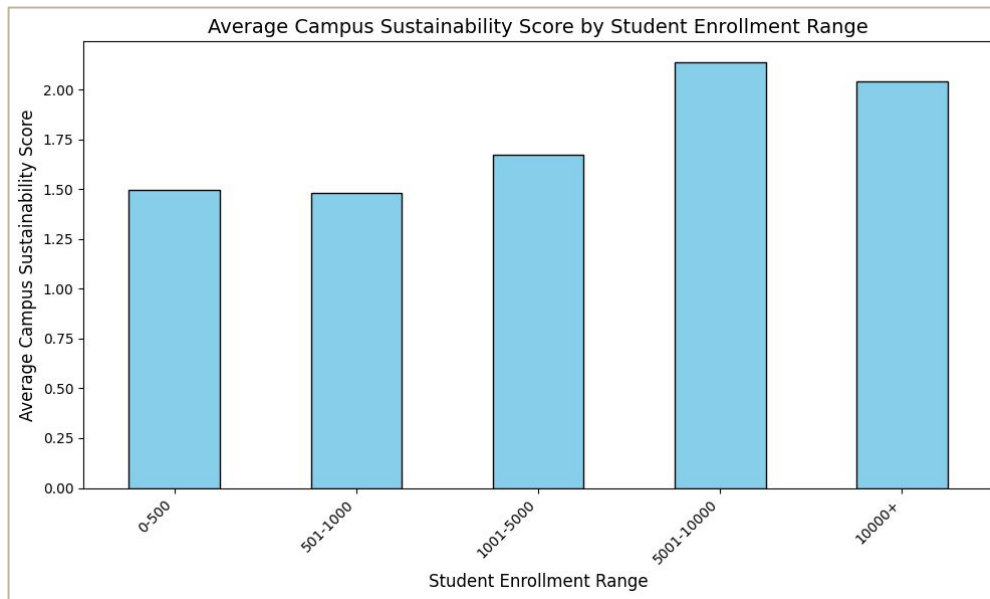
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School Board Policy Campus Sustainability Scores (out of 3)



Are Lower Sustainability Scores Caused by District Size (or Student Enrollment)?



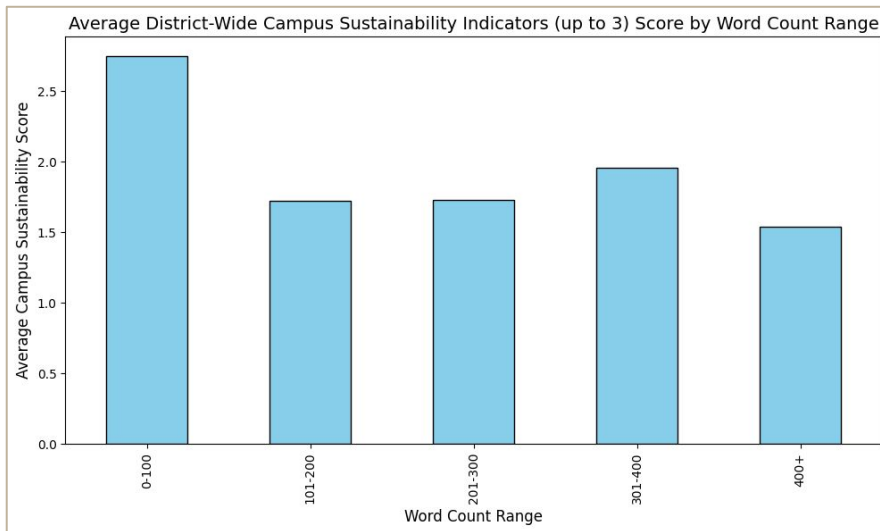
Average District-Wide Campus Sustainability Indicators (up to 3) Score by Student Enrollment Range:

Enrollment Range	
0-500	1.494444
501-1000	1.483051
1001-5000	1.671315
5001-10000	2.134615
10000+	2.041304

Does Word Count Affect Commitment Score?

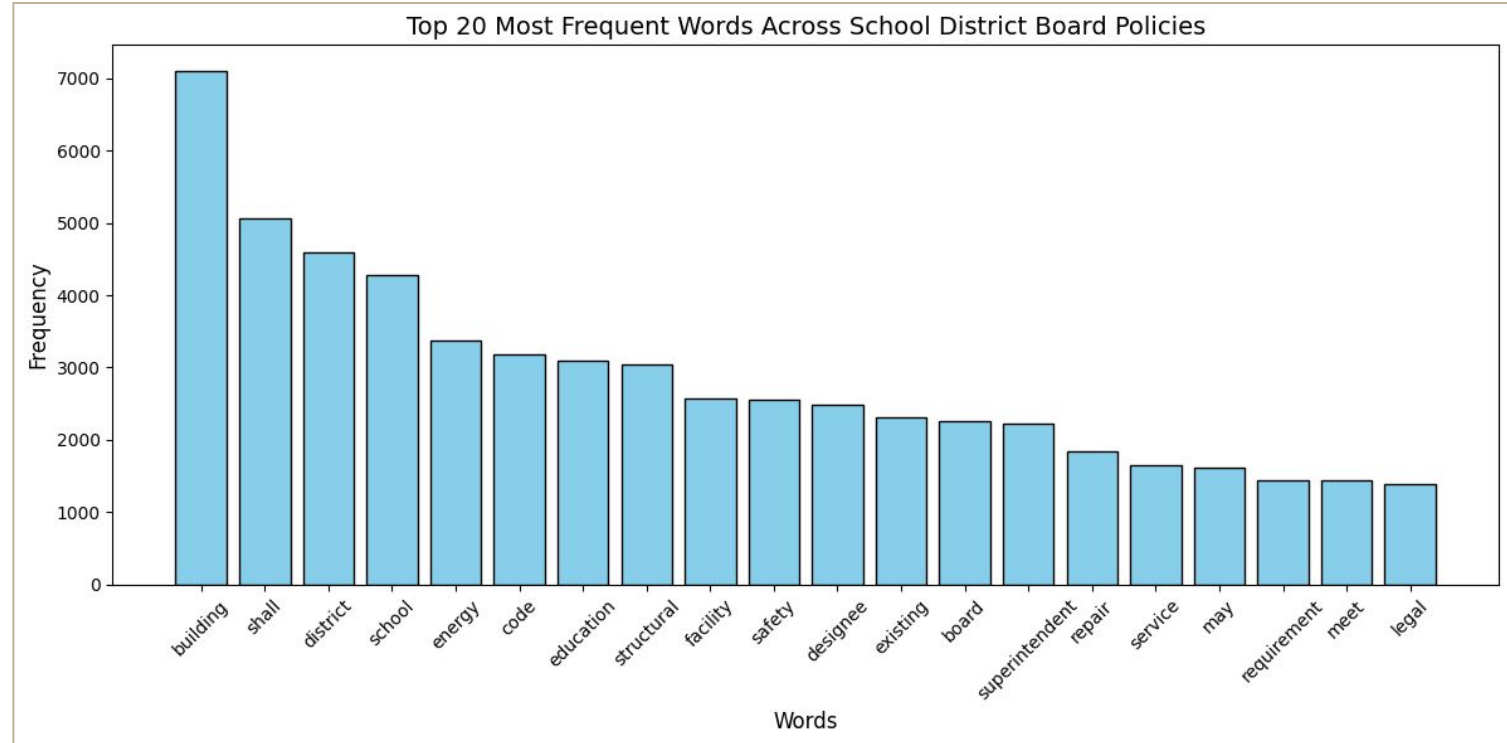
Average Campus Sustainability Score by Word Count Range:

Word Count Range	
0-100	2.750000
101-200	1.725000
201-300	1.727455
301-400	1.961207
400+	1.541667



- **Word count does affect sustainability score (?)**
 - Word count and their sustainability scores vary. Board policies with <100 words have higher sustainability scores than higher word counts

Keyword Analysis





Thank you!