Name: ClickHereToType Period: ClickHereToType

Design a 50 Year Energy Plan

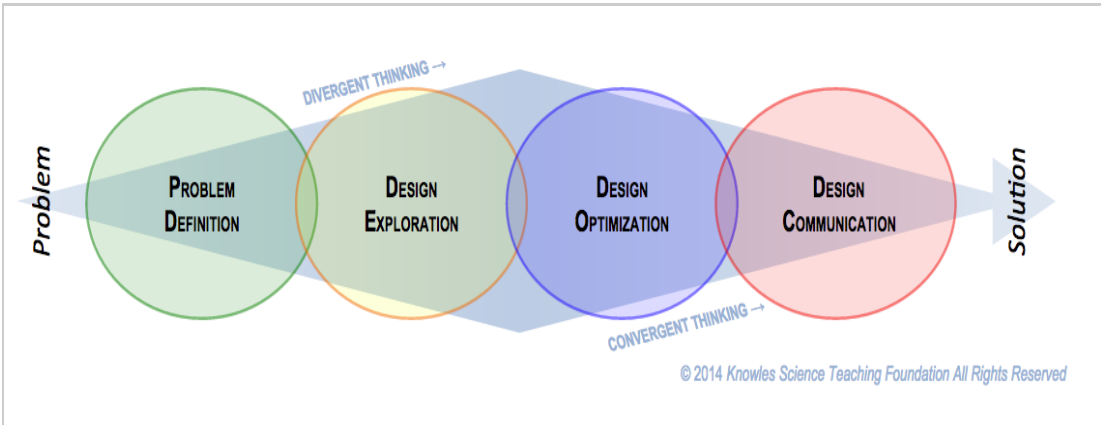


Table of Contents

Oregon State Legislature: 50-Year Energy Plan 2

State of Oregon Biennial Energy Plan 2015-2017 2

Charge to the Energy Plan Commission 2

Problem Statement 3

50 Year Energy Plan Report 4

The Basic Physics of Electric Generators 4

Background on Large Scale Power Production, Distribution, and the Grid* 4

Evaluating Design Solutions and Final Recommendation 4

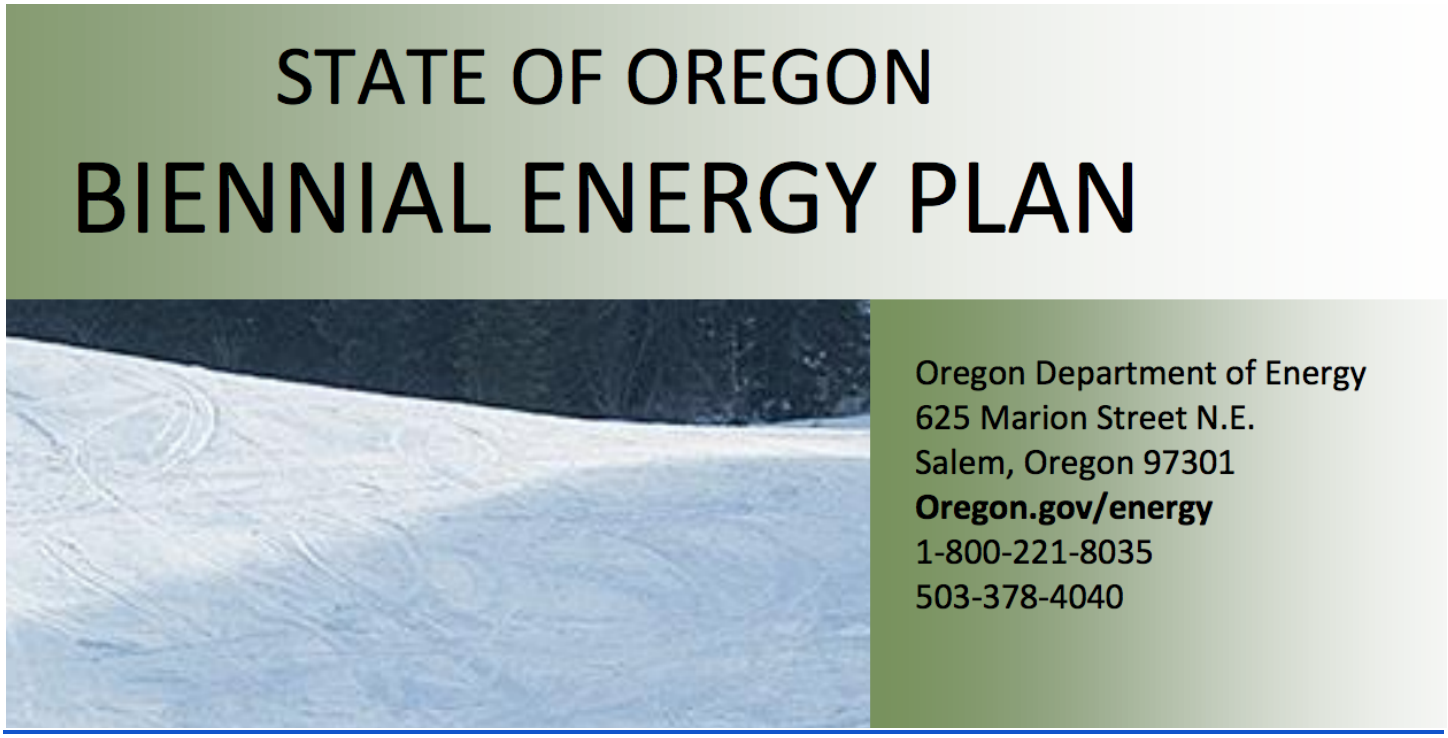
Exploring Our Engineering Challenge (Claim) 4

Evaluating Competing 50 Year Plans (Evidence) 4

Reasoning about the Best Design (Reasoning) 4

Limitations of your Plan 4

Oregon State Legislature: 50-Year Energy Plan



State of Oregon Biennial Energy Plan 2015-2017

Read the summary on page 11 of State of Oregon Biennial Energy Plan 2015-2017.

Charge to the Energy Plan Commission

The Oregon Legislature, through the bipartisan Energy Plan Commission, which you are a part of, is writing a 50-year energy plan for the state. The Commission needs to provide a plan with rationale and a working spreadsheet to show the efforts of alternative plans.

Many legislators are unfamiliar with the basic physics of power production, so please include background information to help them better understand the challenges we face. As part of the requirements, the plan must be responsive to the values of Oregonians and fulfill the requirements of the Oregon Law titled “Clean Electricity and Coal Transition Plan” which requires the state to move completely off coal power by 2035.

Additionally, the state requires power companies to produce reliable power that always meet or exceed the energy needs of all Oregonians while staying within projected growth each decade.

Evaluation of the Plan will occur on ClickHereToType.

Problem Statement

ClickHereToType

Constraints in the 50 Year Energy Plan:

1. ClickHereToType
2. ClickHereToType
3. ClickHereToType

Criteria that your plan will be measured by:

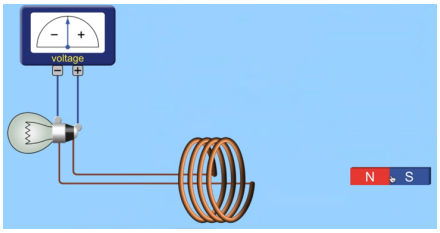
1. ClickHereToType
2. ClickHereToType
3. ClickHereToType

Brainstorming

Divergent thinking: start by creating an initial plan here and copy and pasting it below.

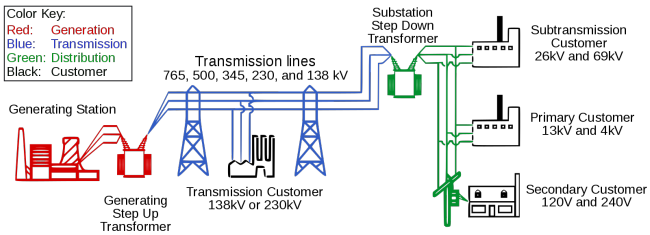
50 Year Energy Plan Report

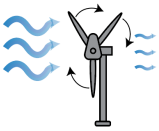
The Basic Physics of Electric Generators



The basics physics of electric generators ClickHereToType

Background on Large Scale Power Production, Distribution, and the Grid



Describe how our power grid works using the  image as a guide. ClickHereToType

Evaluating Design Solutions and Final Recommendation

See Graphic Organizer.

Exploring Our Engineering Challenge (Claim)

Copy and paste your problem statement and strategy here.

Evaluating Competing 50 Year Plans (Evidence)

Copy and paste your comparison the two competing plans here.

Reasoning about the Best Design (Reasoning)

Copy and paste your reasoning here.

Limitations of your Plan

Copy and paste your limitations here.