

Introduction

Note on Class Slides

- ▶ They are intended to go along with what I say, they are not a substitute.
- ▶ I don't do pretty
- ▶ I don't do fancy
- ▶ There are always typos.

Energy Economics

Economics and structure of energy markets, with a focus on electricity. Examines current policy issues arising from energy production and use.

- ▶ We will be looking at energy markets specifically at the start of class but some of the more interesting topics are in the “consequences of production and use”
 - ▶ Is Fracking a “resource curse”?
 - ▶ Does development of wind resources have an effect on real estate prices?
- ▶ The field has a mix of:
 - ▶ Powerful econometrics
 - ▶ Microeconomic theory

We will be tuning the class to your level of expertise and filling in the blanks as we go.

Where I am coming from

- ▶ Started in energy at the California Energy Commission back in the mid 90s.
 - ▶ Transportation energy use, choice, and simulation
 - ▶ Market transformation
 - ▶ Feebates
- ▶ Energy efficiency evaluation
- ▶ Conservation behavior

In short, I come from the consumption side, not the production side.

Where can you take this knowledge

- ▶ Energy Efficiency evaluation
 - ▶ Plenty of local firms do this (Many former students)
 - ▶ Energy Trust (A few here)
- ▶ Utilities
 - ▶ Northwest Natural
 - ▶ PGE, PacifiCorp
- ▶ Government
 - ▶ Oregon department of energy
 - ▶ Many opportunities as Cap and Trade takes off
- ▶ Other For Profit
 - ▶ Anything related to home automation.
 - ▶ Use off high frequency meter data.
- ▶ Non-profit
 - ▶ Plenty but Carbon Offset certification and evaluation is a growing industry.

Warnings

- ▶ I'm Dyslexic. If you see a slide without a typo – be amazed.
- ▶ Don't think that you have to understand everything
 - ▶ You should read everything.
 - ▶ I unusually read things over and over again and learn new things every time.
 - ▶ If you understand half – amazing.
 - ▶ The more you read, the easier it is to learn more. It really builds on itself.
- ▶ Don't be afraid to Google a picture or an article to help you understanding something in class.
 - ▶ You need to learn how to help yourself.
 - ▶ Learned helplessness is a pet peeve of mine.
- ▶ Do not wait till the last minute
 - ▶ Don't make an optimistic, tightly scheduled plans.
 - ▶ No plan survives contact with reality
 - ▶ Start everything as early as possible.

Look at Course Requirements and the Syllabus

A few things of note

- ▶ There is a term paper and homework but no exam.
- ▶ Presentations
- ▶ My contention is that if you are good with theoretical models, empirical models or explaining them to others, you are employable.
 - ▶ The last one is frequently forgotten.
 - ▶ They are often the highest fliers in the industry.
- ▶ I will be adding significant material on Cap and Trade
 - ▶ Workshops in the Oregon legislature are going on right now.
 - ▶ Prepping a bill for the 2018 session.

Lets see where you are

Time to take the pre-test.

- ▶ Does not count for your grade
- ▶ Don't freak out if you can't do all of it.
- ▶ You should be able to do at least one.
- ▶ Just taking a class and getting an A does not mean you remember or can use the skills.

I'm trying to sort out how to dial in lecture and where I need to add skills.

Reading for Wednesday

Read Dahl Ch 1-2. It is about 40 pages.

DON'T PANIC

How to Read Academic Papers

It is a multipass system.

- ▶ Read the Title and abstract (Papers)
- ▶ Read the section headings
- ▶ Read the introduction
- ▶ Read the conclusion
- ▶ Look at the figures
- ▶ Look at the equations
- ▶ Skim the whole thing
- ▶ Read it but don't freak out if you don't get everything.
 - ▶ Keep notes on your reactions, how the topic connects back and questions (My personal notes on papers are filled with profanity)
 - ▶ Repeat as time allows.

You, and the author, will never fully understand the paper/chapter.

Wednesday and Monday

- ▶ There is a homework due on Monday.
- ▶ Wednesday I will have a lecture on :
 - ▶ The last part of chapter 2 on modeling, i.e., the topic of the homework.
 - ▶ IV estimation an option on the homework.
- ▶ We will reserve some time to peak at the papers you found for the Homework.
 - ▶ Hint: This is like a marshmallow test for procrastination.

Monday's Homework

- ▶ Take a look
- ▶ Pick a paper, the linked journals in the syllabus are a good source.
- ▶ Pick something that interests you.
- ▶ Make a bare bones presentation. Don't get fancy
 - ▶ You can use a piece of paper on the overhead
 - ▶ You can chalk and talk with a handout
 - ▶ If you spend more time on formatting than content, you did it wrong.

Questions