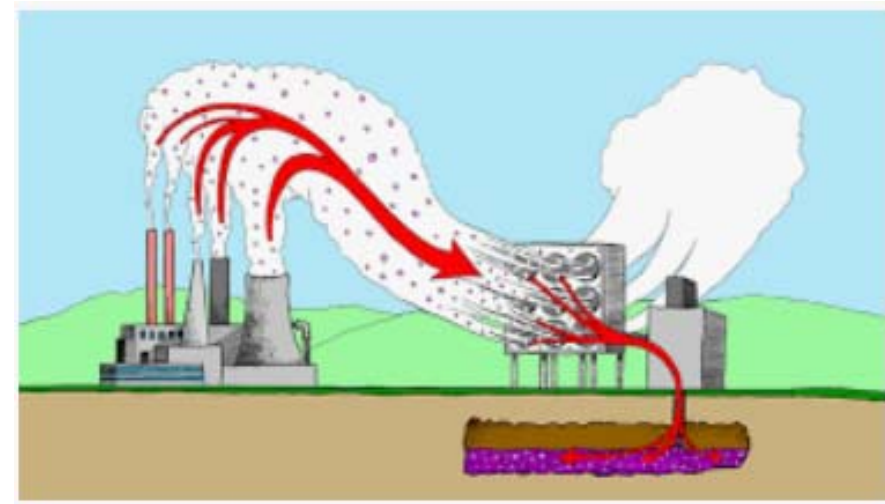


# Start of Ch3 - 6: Contemporary Issues

- Electricity Generation
  - Majority still with fossil fuel
  - Emission problem (CO<sub>2</sub>) and global warming
  - Carbon Free 2050 – a long way to go
- **Carbon Reduction Approaches**
  - Technical approach: Carbon Capture
  - Policy approach: Carbon Taxation



# Start of Ch3 - 6: Contemporary



## □ Carbon Capture and Storage

- carbon dioxide (CO<sub>2</sub>) from industrial sources is separated, treated and transported to a long-term storage location
- a variety of technologies : **absorption**, adsorption, chemical looping, membrane gas separation, or gas hydration
- The technology has a success rate of between 50-68% of captured carbon.
- Storage of the CO<sub>2</sub> is either in deep geological formations, or in the form of mineral carbonates.
- Geological formations: The US National Energy Technology Laboratory (NETL) reported that North America has enough storage capacity for more than 900 years worth of CO<sub>2</sub> at current production rates.
- A general problem is that long-term predictions about submarine or underground storage security are very difficult and uncertain, and there is still the risk that some CO<sub>2</sub> might leak into the atmosphere
- CCS technology is expected to use between 10 and 40 percent of the energy produced by a power station

# Specific Questions

- **Subject:** “What are two major carbon capture technologies, and what are their advantages and disadvantages? Is carbon capture more effective than carbon taxation for the environment? Why do you think so ?”
- **Specific questions:**
  - What are two major carbon capture methods?
  - What are advantages and disadvantages of each method?
  - How does carbon taxation work?
  - In comparing carbon capture and carbon taxation, why do you think one is more effective than the other in reducing carbon emission? [1<sup>st</sup> person]
- Length: 3 – 5 pages
- Submission File Format (MS Word):  
*Carbon\_LastName.docx*
- Due: check the ***Essay assignment***

# Format

## □ Essay Format

□ No cover sheet, 1 in margin in all 4 sides, page number, single spacing, font size 11 or bigger

□ First line: Date, Name , ID

□ Second line: Essay Title

□ From the 3d line

□ **First Paragraph** --- Condensed *Answer to all Specific Questions*

□ **Main Body:**

- Expansion of the answers and argument

- Main body length MUST be at **least 3 times** longer (in terms of word count) than the first paragraph

## Writing for busy people

- People are more likely to read subjects/writings/emails that create curiosity or provide utility
- When they are busy
  - Curiosity fades in importance
  - They read only the ones with **practical importance** ["utility"]
  - They may read the first sentence (or 1 paragraph) and decide to read on or stop
- Everybody is busy !

No Thursday BUCC, please order for Co...

Promotions Presidents' Day Appliance S...

Promotions Keep up with your creativity

Promotions Presidents Day Sale Save 1...

Snow Fun and Products Coming Soon!

Promotions 15% OFF Mislabeled 5lb. Ra...

Promotions Flash Sale! Get 1 Year of TI...

Promotions ENDS TONIGHT: Save 30% ...

Thanks for submitting your payment

Bi-Weekly iPredict Update M...

RSVP ▾



# Successful Writing for EFCE325 class

- Write as if you are a staff writer (targeting for busy people) for a newspaper, and remember that you have an editor whose job is to cut your article to fit into a limited space, maybe just 1 inch in a column.

THE WALL STREET JOURNAL

## ast Arista Settles IP Dispute With Cisco

By MICAH MAIDENBERG

Arista Networks Inc. agreed to pay Cisco Systems Inc. \$400 million as part of a settlement that resolves much of the litigation between them.

The companies have been battling in court for several years over intellectual-property and antitrust claims.

"Cisco and Arista have come to an agreement which resolves existing litigation and demonstrates their commitment to the principles of IP protection," the companies said Monday.

At the heart of the dispute was whether Arista infringed on Cisco's intellectual property like programming commands used to configure Cisco networking hardware. Cisco claimed Arista could have developed its own commands, but Arista said those commands had become an industry standard used by many companies.

Heightening the drama is the fact that Arista CEO Jayshree Ullal is a former Cisco executive who was once close to John Chambers, the former top executive at San Jose, Calif.-based Cisco.

In addition to the payment Santa Clara, Calif.-based Arista will make, the companies agreed to use arbitration, at least for the next three years, to resolve patent-infringement issues connected to new products or related to new features in existing products.

For the next five years, the companies agreed that with certain exceptions for source-code claims, neither will file legal actions against the other for products that are currently on the market.

Arista's filing described this as a "stand-down period" in its filing.

Trump administration's new auto tariffs has car manufacturing na-

ited Washington in July leading a delegation that included industry executives.

keep his options open.  
—William Mauldin  
contributed to this article.

## ake Zone U.S. Sets Next Round of Tariffs On China Imports

By JACOB M. SCHLESINGER

WASHINGTON—The Trump administration completed plans to impose new tariffs on \$16 billion in Chinese imports to punish Beijing for its trading practices, bringing the total value of products covered by the duties to \$50 billion by the end of the month.

Tuesday's move was widely expected, as the administration had already announced plans to impose the tariffs and held public hearings on the 10-page list of products it was considering subjecting to the levies.

In response to comments from businesses that might be affected by the measures, the U.S. Trade Representative's office made slight adjustments to the original list, removing five items and leaving 279 products—mainly chemicals and electronic parts—still subject to the tax.

The trade office also announced that the penalties would take effect Aug. 23.

China has already announced plans to retaliate with tariffs of an equivalent amount on U.S. goods, once this latest round takes effect.

The Chinese government has repeatedly denied the allegations.

The list of products covered by the Aug. 23 tariffs includes mainly industrial goods such as "lubricating oils," "fittings of plastics, for plastic tubes, pipes, and hoses," and "voltage and voltage-current regulators."

The new levies are "part of the U.S. response to China's unfair trade practices related to the forced transfer of American technology," the Trade Representative's office said in a statement Tuesday.

The penalties on \$16 billion in imports are scheduled to take effect on Aug. 23.

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Both sides have signaled that the trade spat will get



outside their homes, watching packed suitcases, tanks and boxes of supplies.

hundreds of small homes battered by the quakes than 200 aftershocks. Structures with thin cement tin roofs have been flat-arch-and-rescue teams. One person pictured in the Tanjung, looked for victims collapsed structures. Hundreds of foreign tourists in Lombok since the quakes.

—Ben Otto

## Women Causes Furor in Japan

## Successful Writing for EECE325 class

- ***Write as if you are a staff writer***  
Important things [Answer to the problem] in the first paragraph
  - Summary of the event/thing first so that it delivers message even though only that summary survives the “cutting”
  - **The first paragraph should answer all specific questions**
  - Then **expand your answers** after the First Paragraph
- Use your own words →  
**Similarity Check**



# Mandatory study before start + Grading

## □ Helpful tip

- **Mandatory:** Study "*How to write technical essay well*" lecture – Link in the web page
- 3<sup>rd</sup> person (except the last question)
- Write the main body first
- Then, write the 1<sup>st</sup> paragraph

## □ Grading (Main Body + First – Similarity)

- **Main body** length **MUST** be at **least 3 times** longer than the **first paragraph**
- Main Body: 50% & First Paragraph: 50%
- **Similarity Deduction:** Similarity % will be deducted from the sum of two scores.
- Example: 50% 50% 15% → 85% (final score)
- Example: 40% 50% 5% → 85 % (final score)

