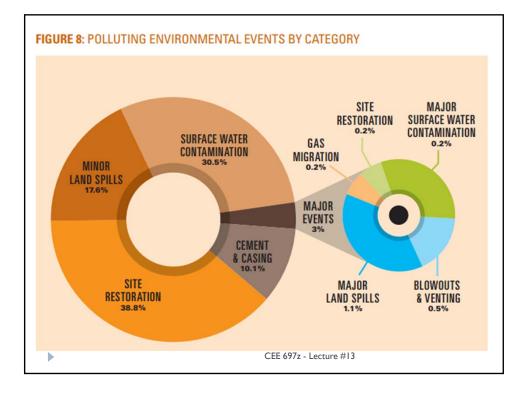
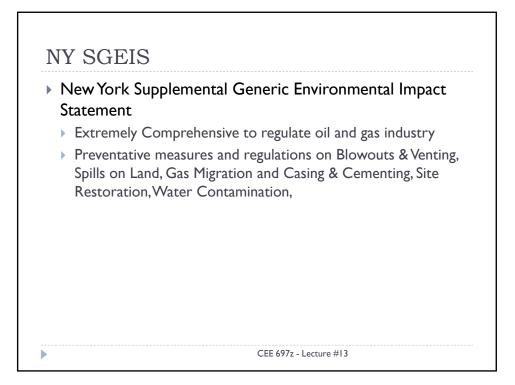
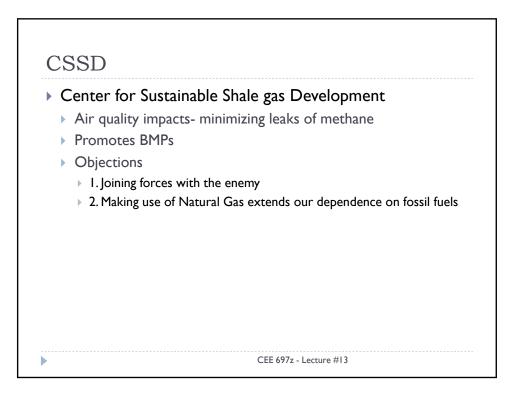


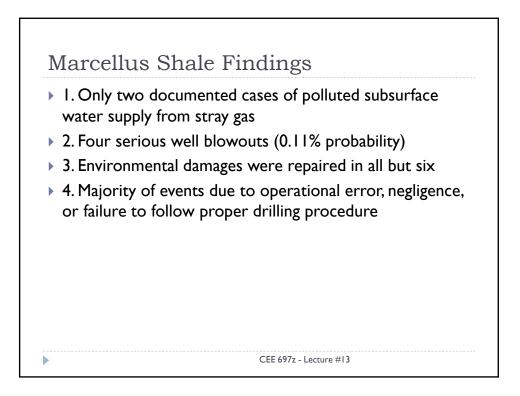
## TABLE 3: POLLUTING ENVIRONMENTAL EVENTS IN THE PENNSYLVANIA MARCELLUS SHALE

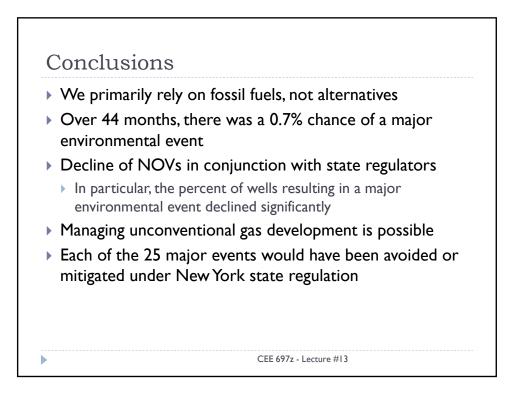
	2008	2009	2010	Jan - Aug 2011	2008 to 2011
Major Impacts					
Blowouts & Venting	0	0	2	2	4
Major Land Spills	0	2	2	5	g
Gas Migration	0	1	1	0	2
Site Restoration	1	0	0	1	2
Water Contamination	0	5	1	2	8
Subtotal	1	8	6	10	25
Minor Impacts					
Cement & Casing	0	2	27	56	85
Site Restoration	72	68	90	98	328
Minor Land Spills	4	56	66	23	149
Water Contamination	13	39	133	73	258
Subtotal	89	165	316	250	820
Grand Total	90	173	322	260	845

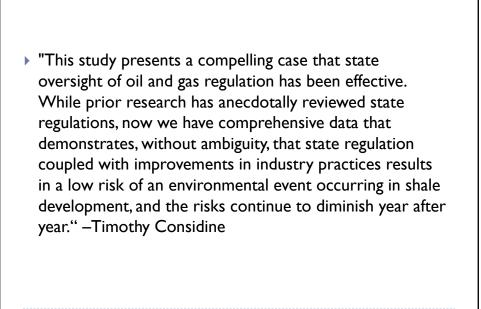












CEE 697z - Lecture #I3

