MASSACHUSETTS CLEAN ENERGY CENTER®

Massachusetts Climate Careers: Powering the Future

Climate Hero Spotlight: Managers and Analysts

Opening Activity

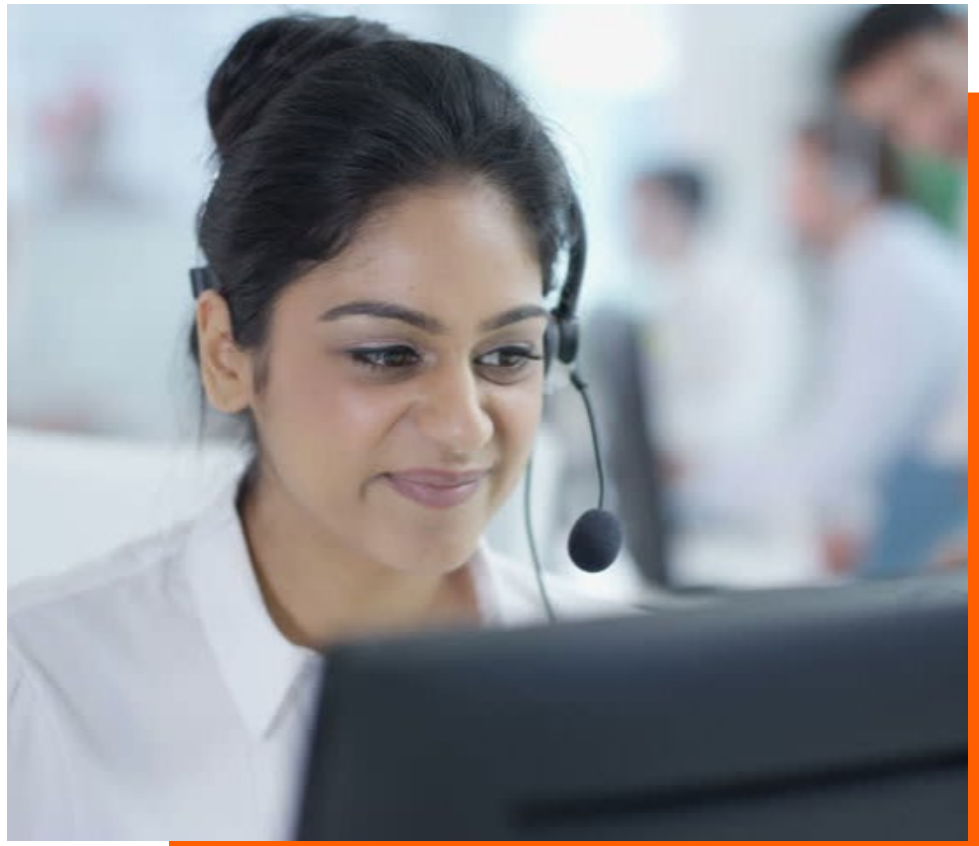
Quick Patterns

This table shows energy production for a local solar installation.

- What have you noticed about the energy output over six days?
- What might have caused changes in energy output?

Day	Solar Output
1	80 kWh
2	70 kWh
3	90 kWh
4	85 kWh
5	95 kWh
6	75 kWh

kWh = kilowatt hour, a standard measure of energy



Today's Agenda

- The Big Question and My Climate Goals
- Climate Watch and Discussion
- Managers and Analysts in Clean Energy
- Skills and Training
- Project Back on Track
- Key Takeaways and Closing

The Big Question

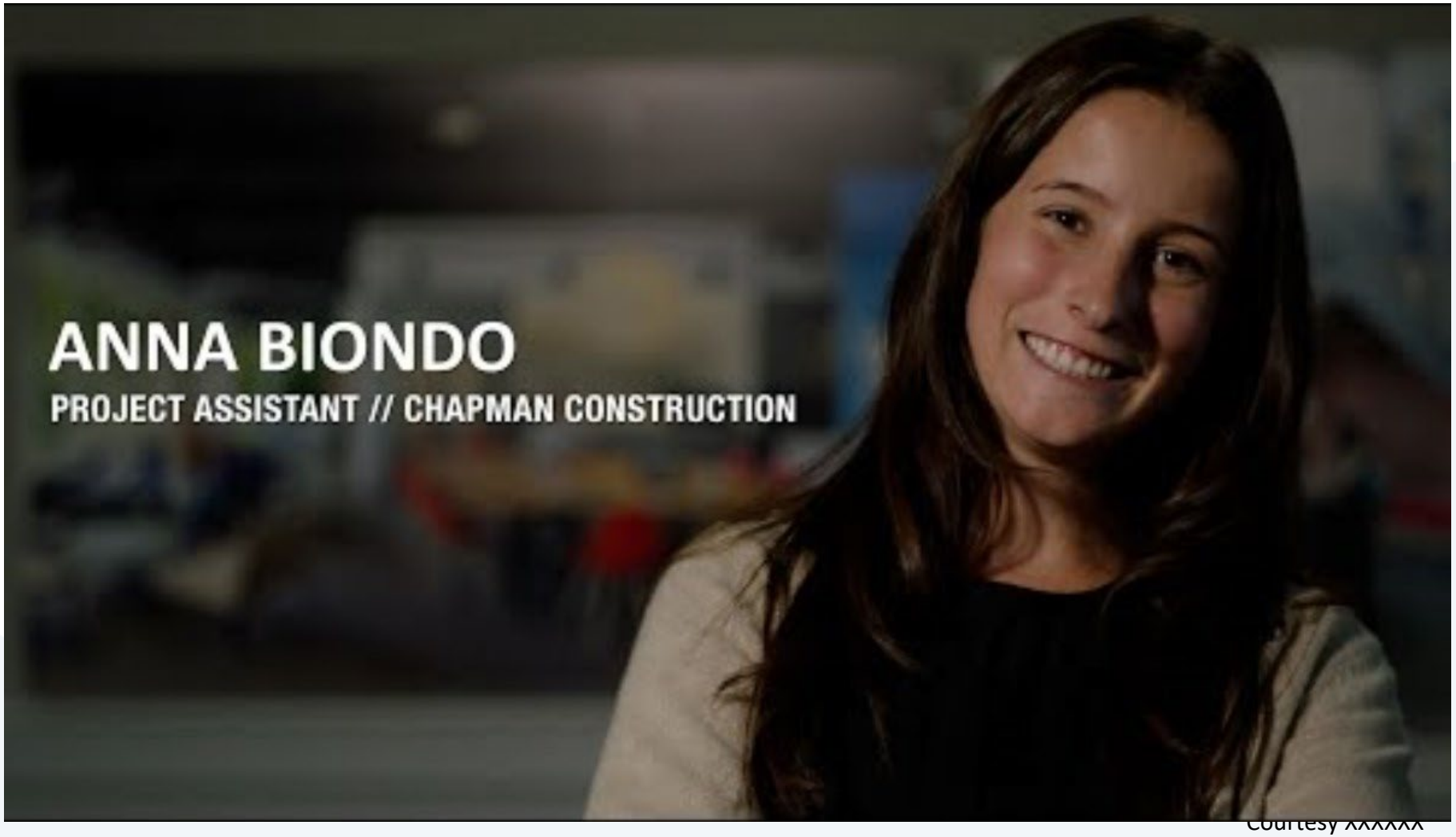
How do analysts and managers contribute to designing and implementing climate solutions?

My Climate Goals

When you complete this lesson, you'll be able to

1. Explore how analysts and managers contribute to climate-critical solutions across key technology solutions
2. Identify the skills, training, and experiences needed to work in analyst and management roles in clean energy
3. Discuss which aspects of a career as an analyst or manager are aligned with your skills, interests, and desired work environment.

Climate Watch: Video



Courtesy xxxxxx

Climate Watch Discussion

1. What surprises or interests you most about this type of analyst work?
2. How does the analysis shown in the video connect to other climate critical careers discussed in this course?

Manager Roles

Project managers oversee renewable energy installations, such as solar or wind projects.

Program managers supervise multiple related projects to achieve larger goals, such as a local solar incentive program.

Analyst Roles

Sustainability analysts evaluate energy use, emissions, and sustainability practices for improvement.

Market analysts research trends in clean energy to help guide business decisions.

Skills and Knowledge

- Communication
- Critical thinking
- Project management
- Analytical skills

Education and Training

- Most manager and analyst roles require a Bachelor's degree.
- Pay rates range from $41/hour to $66/hour, with a median rate of $52/hour.
- Specialized certifications can lead to senior positions and higher pay.

Growth Potential

- Massachusetts needs nearly **3,000 new manager and analyst** positions by 2030 in clean energy to support its climate goals!

- Manager and analyst roles have solid opportunities for advancement and can progress to higher leadership roles.

Project Back on Track

- You have been hired to manage a critical local clean energy project. Unfortunately, the project is experiencing significant delays.
- In groups, analyze the available information to determine the cause of the delays, design a project recovery plan, and decide how to communicate with project stakeholders.

Activity Debrief

- What was the most challenging aspect when creating your project recovery plan?
- What did you learn from how other groups approached their project?

Key Points

- Managers are one of the most in-demand jobs in clean energy.
- Communication skills are essential for effective managers.
- Managers and analysts have similar skill sets but perform different roles.

Closing Activity

Skills Inventory

1. What is one skill or attribute that makes managers and analysts crucial to successful clean energy projects?
2. What is one skill you have that you believe would make you a good manager or analyst?

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