Electrify Your Future

Design a 100% electrically powered city with energy generated from sources that keep their citizens and the environment healthy and safe.
AGENDA

- Washington State Future City Committee
- Competition Overview  Includes what is new this year
- Organizing Your Team
- Future City Resources  Handbook, Future City Website & CMS
- Regional Competition Information
WASHINGTON STATE FUTURE CITY COMMITTEE

- Karen Pavletich - (Regional Coordinator)
- Steve Cresse - (Treasurer)
- TBD - (Sponsorship Coordinator)
- Sophie Pavletich - (Publicity)
- Karen Pavletich - (Teacher/School Advisor)
- Stacia Lesser - (Competition Day Coordinator)
- Ken Pavletich (Photographer)
- Sarah Davis/Jeanne Harshbarger - (Judging Co-Coordinators)
- Carl Buher/Colin OBrien – (Scoring Co-Coordinator)
- Louis Tibbs - (Scoring Advisor)
- Lindsey Pavletich - (Awards/Prizes)
- Puneet Janda - (Members-at-Large)
- Carina Pham- (Members-at-Large)
COMPETITION TIMELINE

- **City Essay**
  - December 15, 2023

- **City Model**
  - January 20, 2024

- **City Presentation**
  - January 20, 2024

- **City Q&A**
  - January 20, 2024

- **Regional Competition**
  - January 20, 2024

**Project Plan:**

1. **Part 1**
   - November 3, 2023

2. **Part 2**
   - November 17, 2023

3. **Part 3**
   - December 15, 2023

4. **Part 4**
   - January 12, 2024
<table>
<thead>
<tr>
<th>PROJECT DELIVERABLE</th>
<th>COMPETITION POINTS</th>
<th>DUE DATE</th>
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</thead>
<tbody>
<tr>
<td>1. CITY ESSAY</td>
<td>50 POINTS</td>
<td>Dec 16</td>
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<td>last year 50 points</td>
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<td>Dec 16</td>
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<td>Teams describe the unique features of their city and their solution to this year’s challenge: Design a city completely powered by electricity generated from sources that keep your citizens and the environment healthy and safe.</td>
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| 2. CITY MODELL          | 65 POINTS           | Jan 20         |
|                         | last year 60 points |                |
|                         |                     | Jan 20         |
| Teams build a physical model of their city (in one piece or multiple segments) using recycled materials. The model showcases the team’s city of the future, their solution to this year’s challenge, and has at least one moving part. |

| 3. CITY PRESENTATION AND Q&A | 72 POINTS | Jan 20 |
|                             | AT COMPETITION | |
|                             | last year was 2 deliverables 50 / 42 points | |
|                             |                     | Jan 20 |
| Three student team members give a 7-minute presentation about their future city and their solution to the challenge. Teams have an 8-minute question and answer period, conducted with a panel of judges from the engineering, city, and technical communities. |

| 4. PROJECT PLAN          | 10 POINTS           | Jan 20         |
|                         |                     | Jan 20         |
| Teams complete a Project Plan to help them plan and organize their work. They use it throughout the project. |

Total Points last year = 212
Total Points this year = 197
FOR 2023-2024 COMPETITION

• **City Presentation and Q&A**  is combined back into one deliverable

• **Special Awards**
  ✓ Best Land Surveying Practices sponsored by NCEES
  ✓ Outstanding Project Plan sponsored by the Project Management Institute Educational Foundation
  ✓ A third special award from American Society of Civil Engineers (ASCE) may be coming, stay tuned.

• **Background Checks**  Team mentors must complete their background checks and be cleared by January 5th. Future City mentors will be prompted to initiate the process when they register via the Competition Management System (CMS). Unfortunately, we cannot accept a completed background check from another organization. Background checks vary, some only address instances of financial fraud, for example. This background check will be conducted once every three years.

• **Shipping Model to Washington DC**  Teams are responsible for the cost of shipping or transporting all models to and from Finals. Our regional committee will work to figure out a budget for shipping. Thanks to Judy from Stella Schola for navigating this surprise for our winning team this past year.
FOR 2023-2024 COMPETITION

• Flexible competition format - We are planning on an in person regional competition, but will stay alert for potential COVID impacts that could force us back to a virtual week long competition. For teams over 500 miles away, we will do our 2nd pilot year of teams attending our regional competition day in a virtual room.

• CMS User Dashboard. The streamlined website allow users to manage their teams, check deadlines, access resources, and more.

• Future City Website is integrated with the CMS User Dashboard.

• Virtual City – NOT REQUIRED: Teams can use SimCity as an educational tool (codes will be provided) but nothing is submitted or scored.

• Paperless Forms - Media waiver, honor statement, homeschool affidavit, and expense forms can be found in the Resources section of CMS

• Advancing to Future City Finals – Check out page 71 of the hand book. This covers information on:
  ✓ Registration and Travel
  ✓ Transporting Your Model
  ✓ Regional Winners Team Video & Photo
REGIONAL INFORMATION

• All teams can compete for Regional Awards. If you know of a company or individual who would like to sponsor a Regional award – let us know.

• Note - City Essay is due Dec. 15, 2023. This will help both our teams and judges manage their time. There is a 5-10 deduction for late submittals.

• Note - Project Plan separated into 4 deliverables. There is a 5 pt deduction for missed project plan deadline.

• For Multiple Team Format from one school you may bring 3-5 teams to represent your school. This will depend on our total team numbers this year. We will be working with you on knowing your active team count. Stay tuned for the final team numbers.

• Stay tuned for Virtual Workshop Invites: Future City Program Details, Onboarding new schools and Teacher Input Sessions

• Thank you to Shoreline Community College for their continued partnership with Future City.
COMPETITION TIMELINE – DETAILS

By October 31, 2023
Future City Registration should be completed – BUT SOONER IS BETTER

Friday Nov. 3rd
Project Plan Set Goals

Friday Nov. 17th
Project Plan Create a Schedule

Friday, Dec. 15th
Project Plan Conduct Check In Session & City Essay (1500 words)
Note – essay is due before Winter Break to help our teams and judges manage their time.
  ▪ 5 pt deduction for submittals before, Jan. 4, 2023
  ▪ 10 pt deduction for submittals turned in between Jan. 4th and Jan. 10th.
Note – Project Plan Deliverables are set to support the teams success
  ▪ 5 pt deduction for late project plan submittal

Friday, January 5, 2023
Mentors must have cleared their background check.

Friday, January 12, 2023
Project Plan – Reflect on Project
Final Team Confirmation
Competition Expense Form
Honors Statement
Media Waiver Form
Home School Affidavit

Saturday, January 20, 2023 Region Finalist Competition Day – in person
  ▪ Morning Prelim & Afternoon Finals – City Model, City Presentation and City QA
  ▪ Guest Speaker
  ▪ Awards – Team Recognition, Regional Awards and Finalists

February 17-22, 2023 National Future City Competition
Our first place winner moves on to Nationals!
FUTURE CITY– TEACHER QUICK START

Teachers have asked for help navigating Future City. Check out:

• Future City Handbook Pages 45-51 **Leading Your Team**.

• **Future City Getting Started** guide in the resource section of CMS.

• **Future City: Teacher Experience Video**. Some of our veteran Washington Future City Teachers offer their advice.
ORGANIZING YOUR FUTURE CITY STUDENTS

**Official Team**

Includes three student representatives, one educator, and one mentor. Most regions welcome teams larger than three students; however, only the three official student representatives present the team and answer questions at the competition.

**Multiple Teams**

An organization can form multiple teams under one educator account. Check with your Regional Coordinator to see how many teams may compete in the Regional Competition.

**Other Team Formats**

Some classrooms or clubs choose to work in one large team and break the work into smaller groups.
ORGANIZING YOUR FUTURE CITY STUDENTS

• The “other team format” or “larger than three presenting students” is a great way to involve more students in the program.

• Keep in mind though that if you choose a format with more than three students, your group will have to self-select the same three students for the City Presentation and Q&A (which have been chosen by teacher or peers). Those will be the three “official student team members” for both the Regional and National Competitions.

• Depending on our team numbers for Multiple Teams from one schools you may bring 3-5 teams to represent your school. Stay tuned for the final team number.

Reminder – For larger team formats, only the same three presenters can participate in the City Presentation and the City Q&A with the Judges.
Can Future City Be Customized for My Students?

Keep an open dialogue with the Regional Coordinator about the needs of your team. Even if your teams do not complete all the competition deliverables, they may still have an option of presenting at the Regional Completion. While they would not be eligible to move to the final round of competition in the afternoon, there could be some Regional Awards those teams could compete for. They would also receive certificates of participation and swag bags.

Can I Still Do Future City Without Competing? Yes! Anyone is welcome to register (for free!) and access Future City’s full library of resources. Many regions encourage teams to participate in the competition even without all the deliverables completed—this is known as being a “partial competitor.” Check with your Regional Coordinator to see if the partial competitor option is offered in your region.
Can Future City be customized for my students? Yes – teams can do all deliverables to be eligible for the regional preliminary competition - or deliverables can be customized to fit your curriculum.

Future City Curriculum Connections & 21st-Century Skill Development

<table>
<thead>
<tr>
<th>Competition Deliverables</th>
<th>Math</th>
<th>Science</th>
<th>Research</th>
<th>Writing</th>
<th>Civics/City Planning</th>
<th>Public Speaking</th>
<th>Engineering Design Process</th>
<th>Problem Solving</th>
<th>Teamwork</th>
<th>Project Management</th>
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<tr>
<td>City Essay</td>
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<td>Describe your city and solution to a citywide sustainability issue.</td>
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<td>City Model</td>
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<td>Build a scale model using recycled materials.</td>
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<td>Project Plan</td>
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<td>Complete project plan to stay organized and focused throughout the project.</td>
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<td>City Presentation</td>
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<td>Showcase your city’s innovative features in a short, filmed video.</td>
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<td>City Q&amp;A</td>
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<td>Discuss your city with a panel of judges.</td>
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FINDING AN ENGINEERING MENTOR

Mentors

Mentors work alongside the Educator and act as a coach and role model, share real-life STEM experiences, offer technical guidance, and help translate academic concepts to the real world of engineering and city design.

Time Commitment
About 15-25 hours throughout September – February

Who can be a mentor?
Engineers, technicians, urban planners, Project managers, architects, undergrad or graduate students studying a related field
Benefits of Recruiting Your Own Engineering Mentor

- Self interest: Volunteers with a close relationship to your school (e.g., parents of your students) will automatically be more interested in helping to enhance the learning process.
- Knowledge: Local volunteers will have an increased awareness of local concerns and the resources and goals of your school.
- Better outcomes: You have a better chance for success with a volunteer you have chosen.

Finding Engineering Mentor

- Use Partner-Mentor-Recruitment-Flyer one pager handout provided by your regional coordinator.
- Ask an engineer who has visited your classroom on other occasions (career days, science fair judging).
- Appeal to the parents of the students in your class or school. Place an article in the school newspaper or send a letter home with the students.
- Check with your colleagues at the school. Perhaps one of them is married to or knows an engineer.
- Contact your school's business partners. A local contact that has made a community commitment is an "easy" target.
- Contact your City's Bureau of Engineers. City partnerships with the local school district are usually a priority.
- Tap into other community resources such as YMCA, PTA, churches, museums. They may have volunteers that are willing to help.
- Issue a school press release announcing your participation and the need for a volunteer.
- Look in the phone book under "Engineering" firms. Call to see if they are interested in education programs and community service.
- Check with the local chapters of the major engineering professional associations [http://pseconline.org/Societies/](http://pseconline.org/Societies/)
The handbook is available on-line for download for registered schools in CMS. If a hard copy is needed, please contact the Regional Coordinator.
FUTURE CITY HANDBOOK DESIGN

To help guide your students the handbooks leads with sections to hi-lite this years challenge and brings the break down of each deliverable to the front of the handbook.

The project management sections – define, plan, do and review sections are the core of Future City.

To help you guide your students, you will see the Educator Dashboard and Dig Deeper Links throughout the handbook.

- Links to your CMS dashboard resources.

**Educator Dashboard**
Visit Dashboard FutureCity.org for easy access to all Future City resources, including student handouts, activities, due dates, and more!

- Links to inspire with EWEEK YouTube Videos

**Get Inspired!**
Check out videos of high scoring models from previous years on the Future City YouTube channel: www.youtube.com/user/EWEEKFUTURECITY

- Links to dig deeper

**DIG DEEPER**
Students can practice applying the engineering design process with:
- Tower Building Activity Resources section of the Educator Dashboard at FutureCity.org.
- Cargo Bridge Game (http://www.engineering.com/GamesPuzzles/CargoBridge.aspx)

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READ THE HANDBOOK AND REFER TO IT OFTEN. IT WILL BE YOUR SECOND BEST FRIEND!!!
FUTURE CITY WEBSITE

Integrated with CMS – your quick access to information
Streamlined information for Parent/Students and Future City Roles for Teacher/Mentors
Engineer Design Process: Define, Plan, Do and Review
Link to Washington Region Website
WASHINGTON FUTURE CITY WEBSITE

On our homepage you will find a welcome, region overview and our “Future City Basics – Teacher Experience” Video

https://futurecity.org/washington

For additional regional information – check out these sections in the second half of the webpage
Response to your new CMS that launched last fall has been very positive.

- Personalized dashboard to easily view your teams and students
- System is more user friendly.
- Easier to manage deliverables.
The resource section of the CMS can be filtered by:
- Activities and Background
- Essay
- FC Branding
- Finals
- Forms
- Handbook and Student Handouts
- Instructions

Or you can search for a single deliverable. This is where to find the most up to date resources.
TEACHER SUPPORT

We want you input and feedback. A SurveyMonkey will be launched in mid-Sep. to collect your insights and questions.

Stay tuned for Virtual Workshop Invites: Future City Program Details, Onboarding new schools and Teacher Input Sessions
REGIONAL COMPETITION

- **When**
  - Saturday, January 20, 2024

- **Where** **Shoreline Community College**
  9000 PUB Building
  9114 16101 Greenwood Ave. N. Shoreline, WA
  [https://www.shoreline.edu/map/directions-to-campus.aspx](https://www.shoreline.edu/map/directions-to-campus.aspx)

- **Time**
  - Registration will open at 7:30 a.m. Final schedule will depend on number of teams actually attending
  - Team Confirmation is due **Jan 12, 2024** – in CMS

- **Cost**
  - Team members provide their own transportation, meals and any overnight expenses

- **Work with students and parents** – this is a full day commitment
- **Mentor background check** must be cleared by Jan 5, 2024.
REGIONAL COMPETITION FORMAT

- “preliminary competition”
  - Typically up to 3-5 teams from each school may compete*

- “finalist competition”
  - 5 finalists from the preliminary competition
  - Only one finalist from any individual school
  - All teams and guests invited

*depends on number of schools and teams participating, we will keep you updated
COMPETITION FORMAT – REGIONAL AWARDS

Best Overall Score for First Year School

Best Use of Scale The team that best utilizes the space allowable to build their city.

Most Innovative Moving Part The most energy efficient (uses the least energy for the task it does), structurally efficient (highest strength to weight ratio, best use of materials), and functionally efficient (simplest for the task it does).

Best Community Services The city that has the best ways to give back to those in need and/or their environment and/or the city that has the most fun recreational activities for their citizens.

Most Spirited The team that had the best team spirit based on how well their presentation and model showed team collaboration, respect, and spirit.

Best overall city essay

Best Overall Equitable Solution for 100% Electric City Most innovative and comprehensive resource mix to support ALL citizens in your city.

Best Project Plan

Most advanced technology in City Essay
RULES & SCORING DEDUCTIONS

Have students review pages 42 – 44 often and carefully!

Note: Regional Committee will provide guidelines in December.