

Community Energy Plan Implementation Framework

(CEPIF)

Latest Version & Community Engagement

Forestry and Natural Resources Commission
January 28, 2021

County Board Sept. 2019 Commitments

Government Renewable Electricity

- 50% by 2022
- 100% by 2025
- Use of PPAs

Community Renewable Electricity

- 100% by 2035

Electric Vehicles

- Strategic EV/EVSE Technology, Market, and Operational Plan by 2022

Equity Issues

- Assist low-to-moderate income community
- Ensure everyone has access to and can benefit from CEP programs and activities

CEP Adopted Policies

Buildings

Increase energy and operational efficiency of all buildings

- * Reduce total building energy usage to at least 38% lower than 2016 levels
- * Design, build, and operate beyond what is required by code
- * Pursue funding opportunities and partnerships
- * Advance energy equity to respond to underserved communities

Resilience

Ensure Arlington's energy resilience

- * Make Arlington's energy infrastructure more resilient
- * Enhance Arlington's approach to energy assurance
- * Assess microgrid (islanding) options
- * Use principles of biophilic urban design

Renewable Energy

Increase Arlington's renewable energy resources

- * Government will achieve 50% renewable electricity by 2022, and 100% by 2025
- * Community will achieve 100% renewable electricity by 2035
- * Install 160 megawatts (MW) of on-site solar electricity communitywide
- * Use transactional options, cooperatives and diverse utility models

CEP Adopted Policies (continued)

Transportation

Move more people with fewer greenhouse gas emissions

- * Reduce amount of carbon produced from transportation
- * Reduce vehicle miles traveled (VMT) and increase multimodalism
- * By 2022, develop a comprehensive electric vehicle (EV) plan
- * Promote & encourage convenient EV charging stations throughout Arlington

County Government Activities

Lead by example

- * Reduce County government CO2 emissions to be carbon neutral by 2050
- * Integrate CEP policies into other County plans & activities
- * Assume a leadership role; collaborate and partner with stakeholder groups
- * County facilities should presume Net Zero Ready targets

Education & Behavior Change

Support residents & businesses that are reducing energy usage

- * Engage and empower individuals to reduce energy use
- * Increase level of professional energy expertise and work force in community
- * Ensure recognition of extraordinary efforts to help community reach CEP goals
- * Increase number of buildings that disclose energy use through benchmarking
- * Design and implement programs that address energy equity issues

CEPIF Strategies

Buildings

Encourage commercial energy efficiency improvements through Green Building Incentive (Strategy #10)

Promote better home performance via Green Home Choice (GHC), GHC Kitchen & Bath programs (#21)

Increase the number of ENERGY STAR-labeled buildings (#48)

Resilience

Add renewables plus energy storage to new County projects (#29)

Create an energy assurance strategy by 2022 (#44)

Pursue public-private partnerships to ensure continuity of key government and business activities and services (#56)

Renewable Energy

Increase use of solar PV on homes using Solar Co-Op program (#1)

Use PPAs and VPPAs to reach government and community solar electricity goals (#4)

Facilitate solar installations for low- to moderate income households (#18)

CEPIF Strategies (continued)

Transportation	<p>Facilitate growth of EV charging infrastructure (#14)</p> <p>Increase use of electric vehicles in County fleet (#22)</p> <p>Create a strategic EV/EVSE Technology, Market, and Operational Plan by 2022 (#34)</p>
County Government Activities	<p>Partner with others to achieve legislative victories (#11)</p> <p>Improve County & APS building energy efficiency via Facility Sustainability Policy (Administrative Regulation) (#13)</p> <p>Update and implement the County Operations Energy Plan (#32)</p>
Education & Behavior Change	<p>Create information resources to educate people on energy matters (#23)</p> <p>Encourage the use of Information Technology and 'Smart' Building Energy Management (#53)</p>

Process to Update the CEP Implementation Framework

Overview

History

During CEP update process (2018-2019), the public provided County with numerous ideas of how to best implement the CEP

List of CEPIF Strategy titles included in CEP County Board report (Sept 2019)

Staff Efforts

In late 2019, AIRE staff consolidated 120+ strategies and ranked them using nine criteria

Used a template to expand strategy titles to expanded write-ups

Criteria

Will benefit the local economy?
Benefits outweigh costs?
Environmental co-benefits?
Will advance energy security?
Will reduce greenhouse gas emissions?

Is easy to implement in next two years?
Is it equitable?
Will address barriers to better energy practices?
Promotes Arlington as a leader?

Next Steps

Give general public, stakeholder groups, and Commissions opportunity to review draft CEPIF and provide input

CEPIF Public Process

Aug-Nov

December

January

February

Mar.-Apr.

CEPIF v1 is shared across County Departments

Online engagement for public input

CEPIF v3 created and presented to CMO, CB

Final Draft (CEPIF v4) presented to the County Board

Energy Committee sees v1

3 sets of videos and a virtual public forum:

Electrification of transportation & Renewable Energy;

County Government Activities & Resilience,

Buildings & Education

Present at Commission & Community Group Meetings

- PC
- TC
- C2E2
- EDC
- UFC
- PRC
- Housing
- Chamber
- NAIOP
- Washington Gas
- EcoAction

Create CEPIF v2

Project Worksheet Template

General Project Info

- Contacts
- Green Building
- Energy Consumption / Conservation
- Stormwater Mgmt
- Surface Waters, Resource Protection Areas (RPAs) & Floodplains
- Transportation/Circulation
- Flora & Fauna
- Noise
- Hazardous Substances/Waste
- Natural Resources
- Attachments



Environmental Assessment Form

Submitter Information:

Please enter your name and email address so that we may keep you informed on the status of your project.

First Name: *

Last Name: *

Phone Number: This field is required.

Type:

- Work
- Mobile
- Home

Email: *

Are you the Project Manager for this Project? *

- Yes
- No

Project Manager:

First Name: *

Last Name: *

Pilot New EA Process

- Pilot the draft EA Process Update, without locking everyone into a 10+ year EA process review
- Review the process and projects after 1 year
- Incorporate staff, Commission, public comments to tweak the updated process as needed

Schedule

Stakeholder group meetings / identify interests	✓
Review various interests from all stakeholder groups & find common themes	✓
Create draft revised environmental review process and online tool	✓
Review, comment period for draft revised environmental review process and online tool	2021
Finalize environmental review process & tool	After pilot period