nc2025 Chatham CleanPath

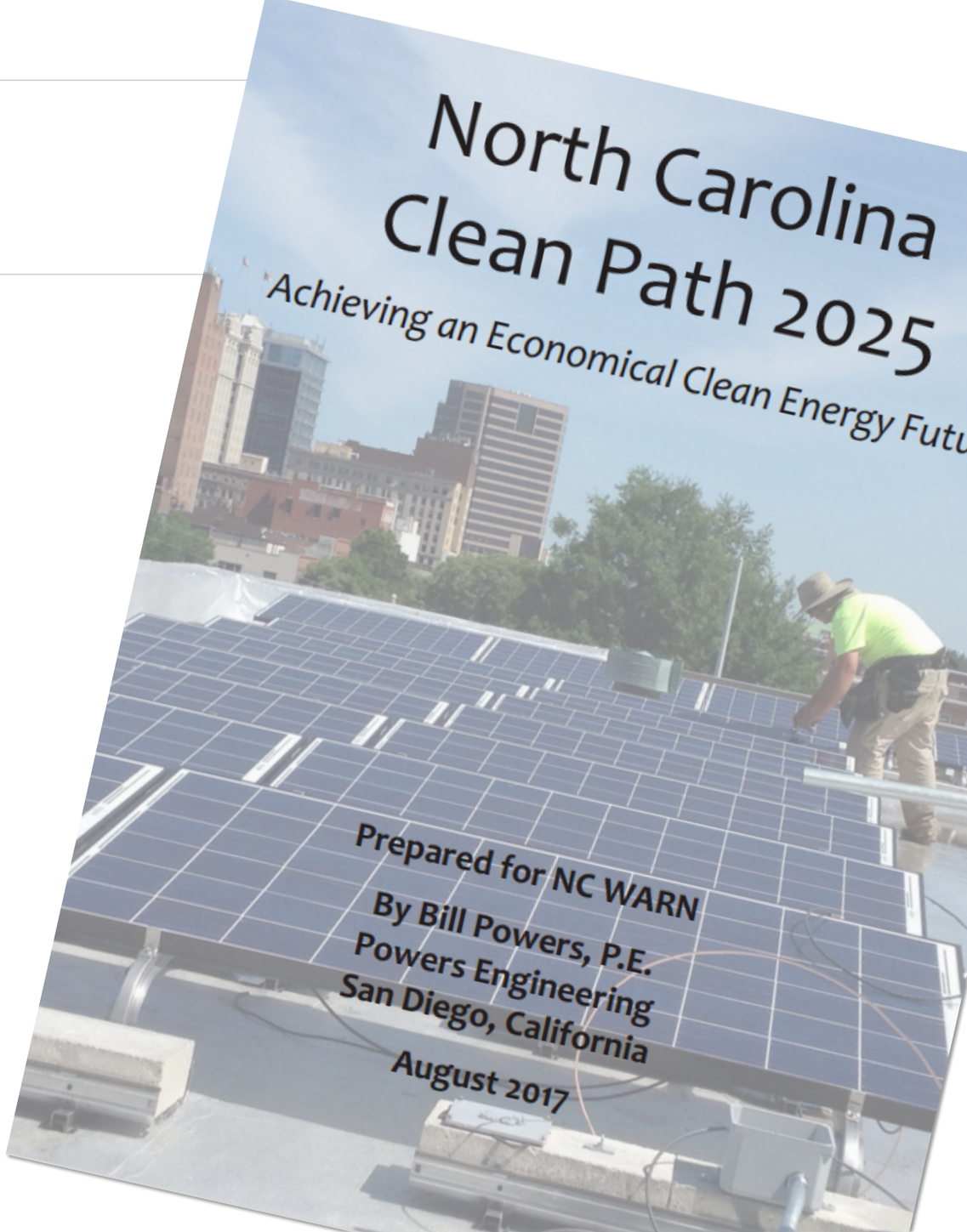
our plan for a clean energy future

Citizen volunteers in Chatham County supporting a move to clean, solar energy.
For government, business, residential, churches, schools, agriculture and communities.

chathamcleanpath.org

A Plan for NC…

Quickly replace
all coal and
gas-fired electricity
with local solar
and batteries –
and save **billions**!



nc2025 ACHIEVING AN ECONOMICAL CLEAN ENERGY FUTURE

Adopted June 19, 2017

County Resolution

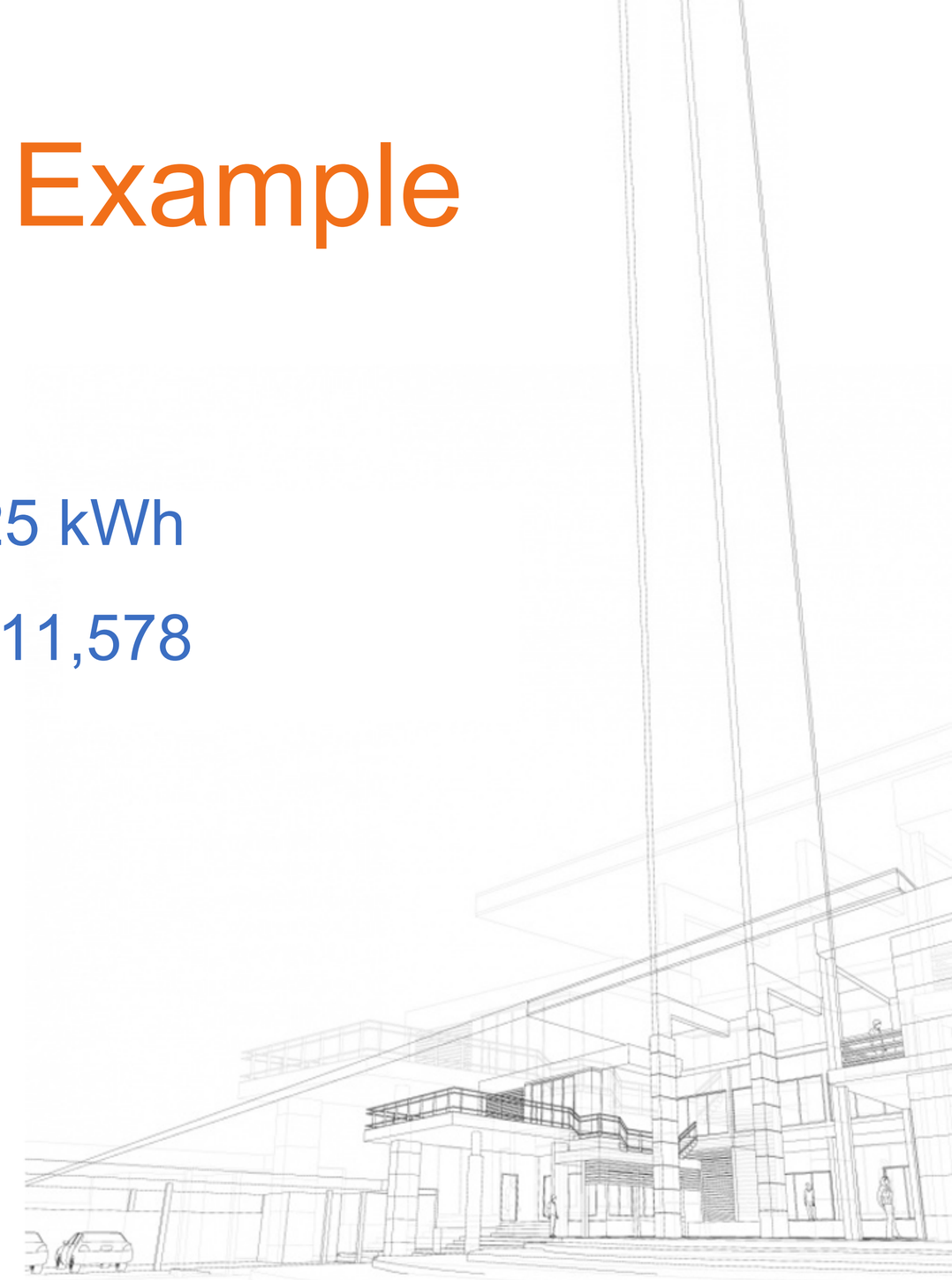
Resolution supporting a transition from a fossil fuel-based commercial electric grid to an electricity producing sector based 100% on renewable or carbon-free sources by January 1, 2050 or sooner to avoid serious climate impacts, to promote job creation and economic growth, and to protect the environment.

– for economic growth –

County Building Example

Current Annual Electric Usage: 144,725 kWh

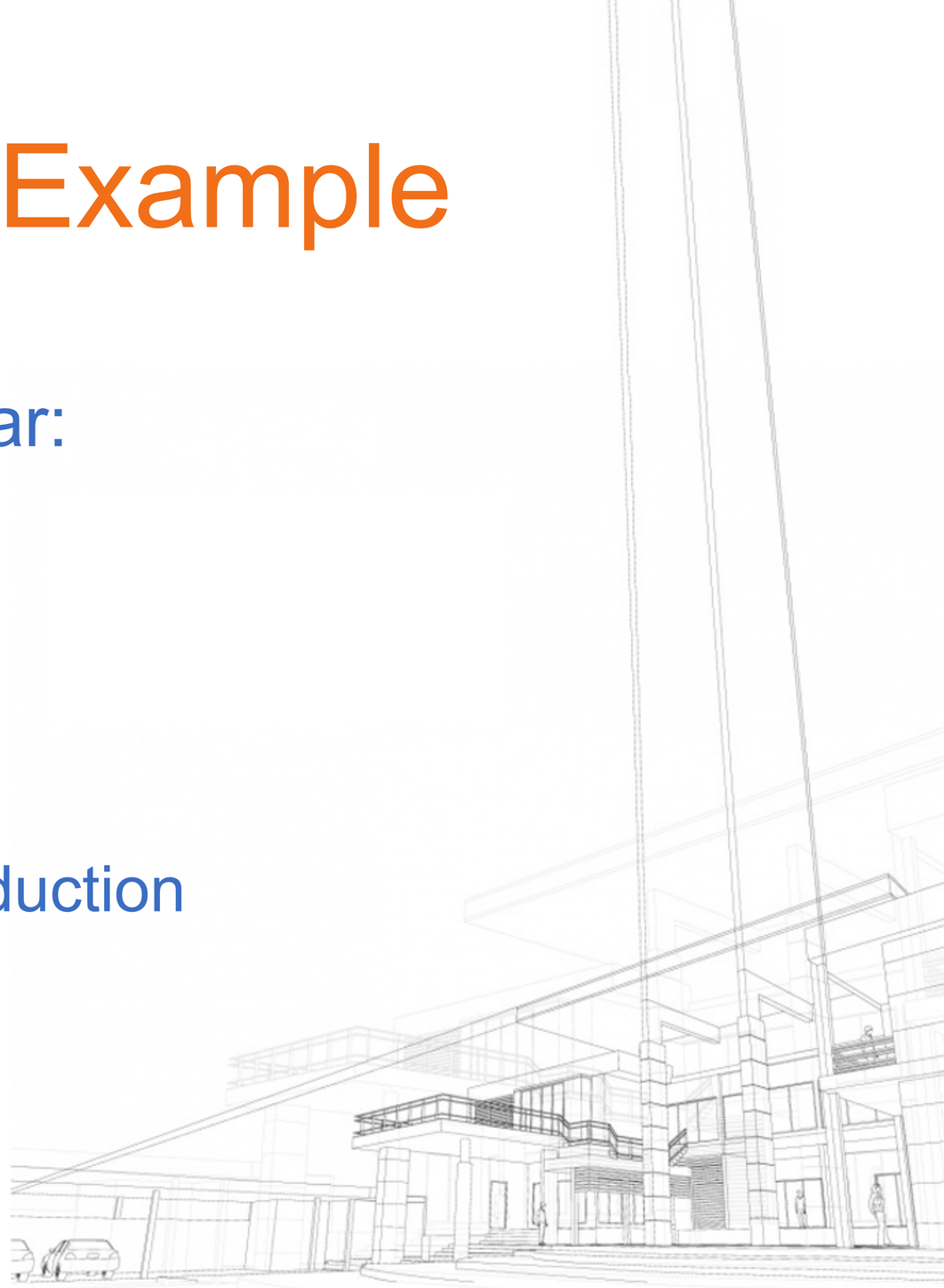
Estimated Annual Cost of Electricity: $11,578



County Building Example

Converting Electricity Usage to Solar:

- 112.1 kW System
- 380 Solar Modules
- 114,729 kWh Per Year
- 3,409,229 kWh 25-Year System Production

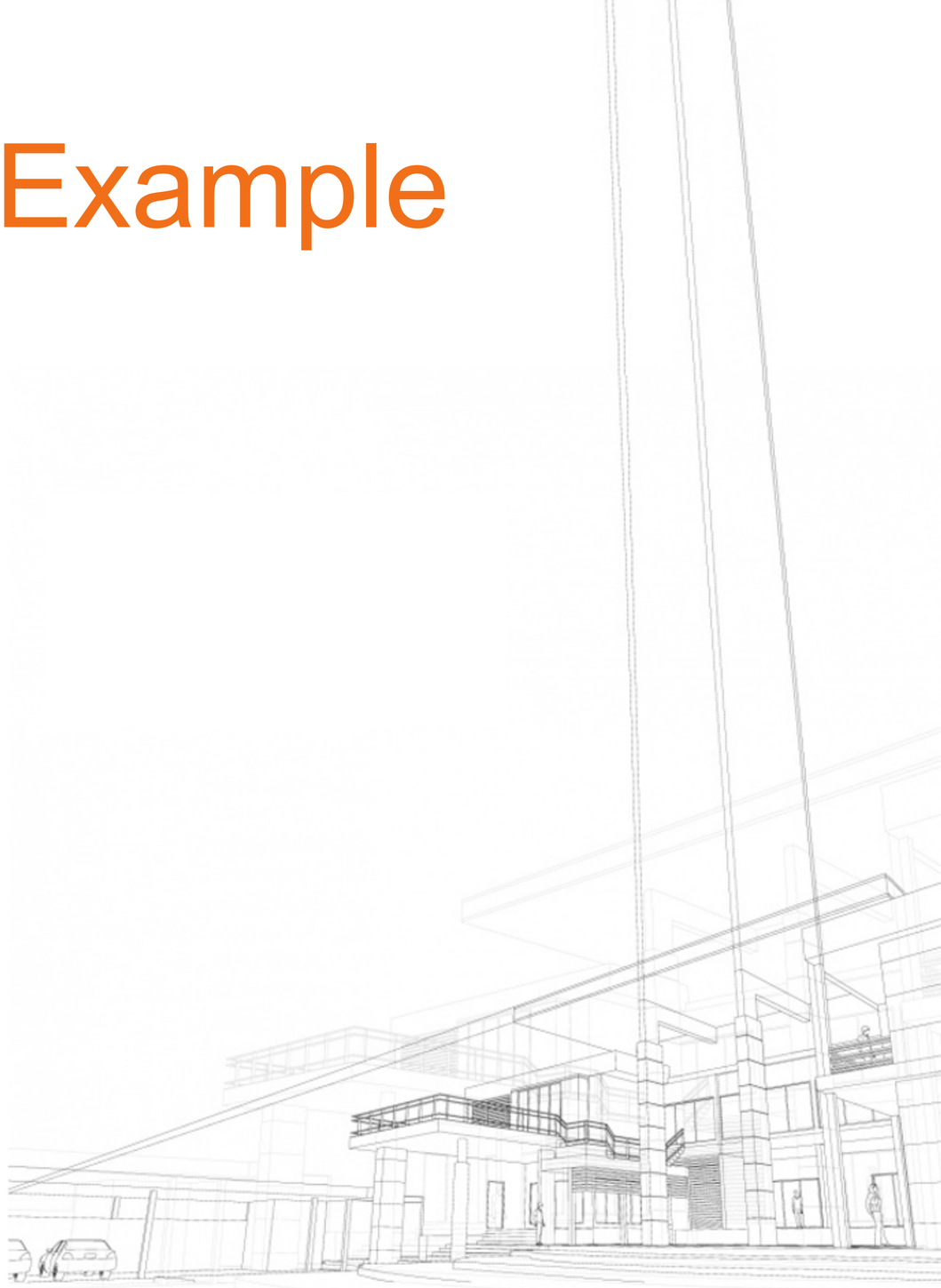


County Building Example

$235,410 System Cost

($75,000) Duke Utility Incentive

$160,410 Net Cost

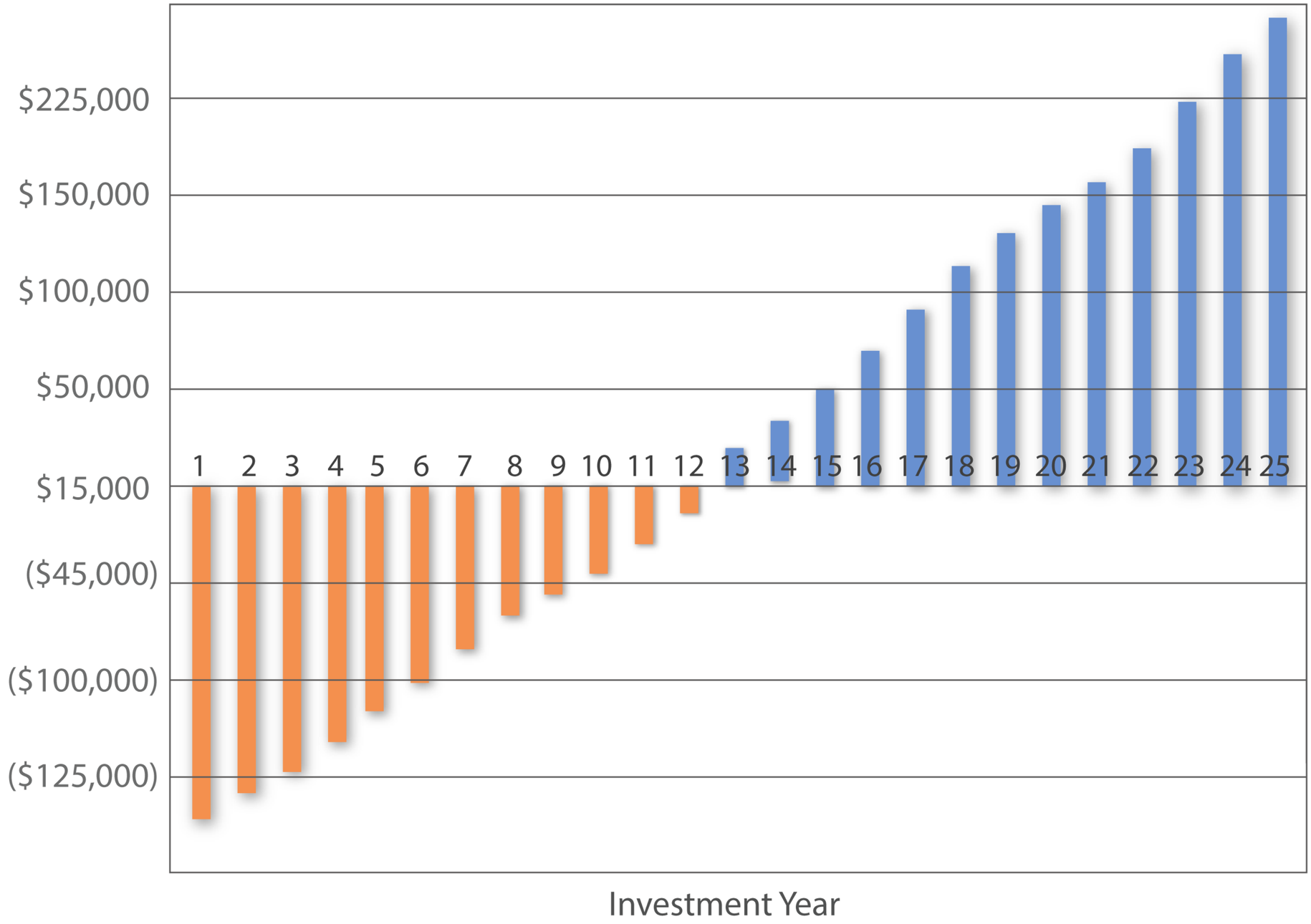


Cash Scenario

$160,410

Year 1: 11,578

($148,832)

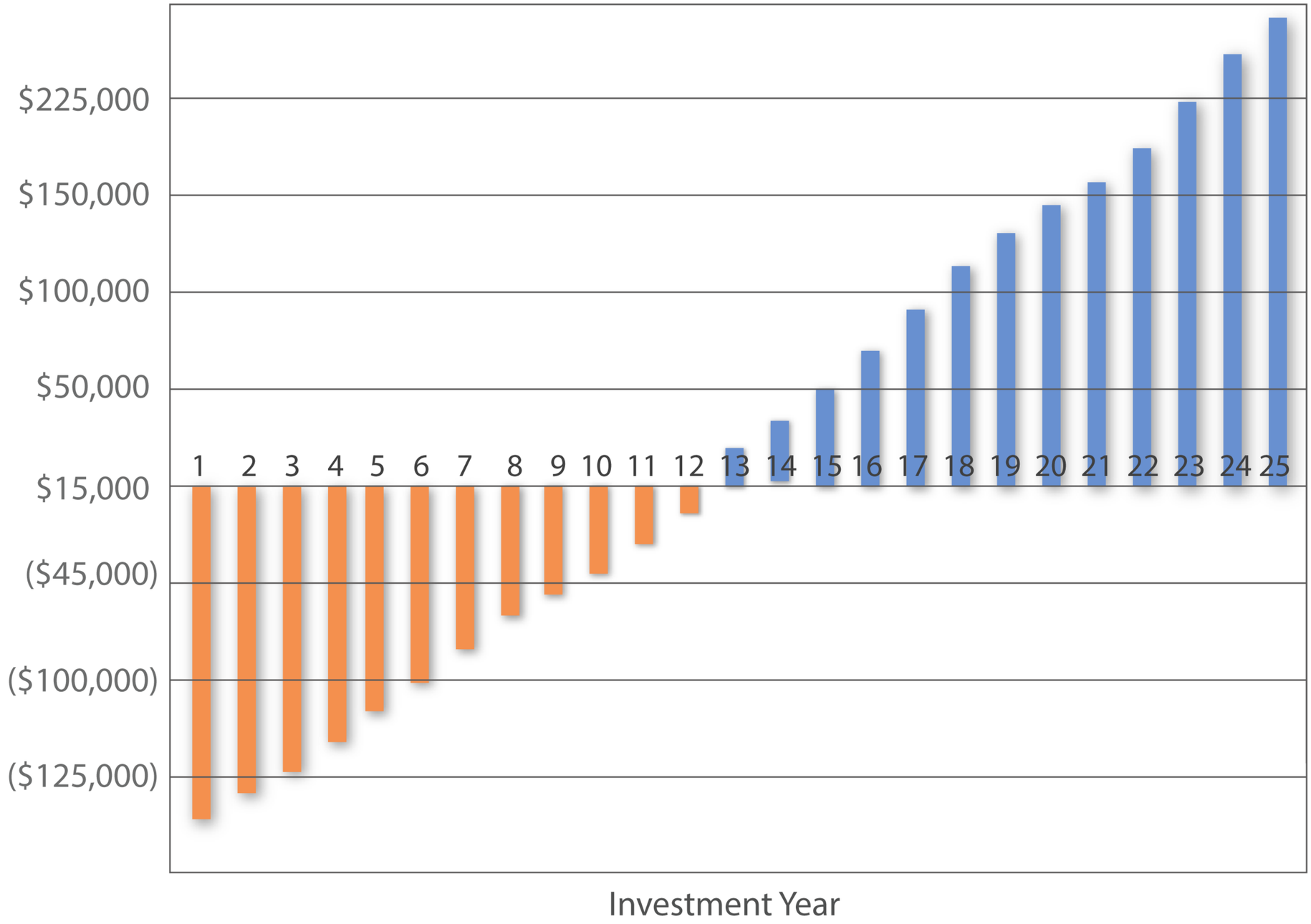


Cash Scenario

$160,410

Year 5: 12,773

($99,569)

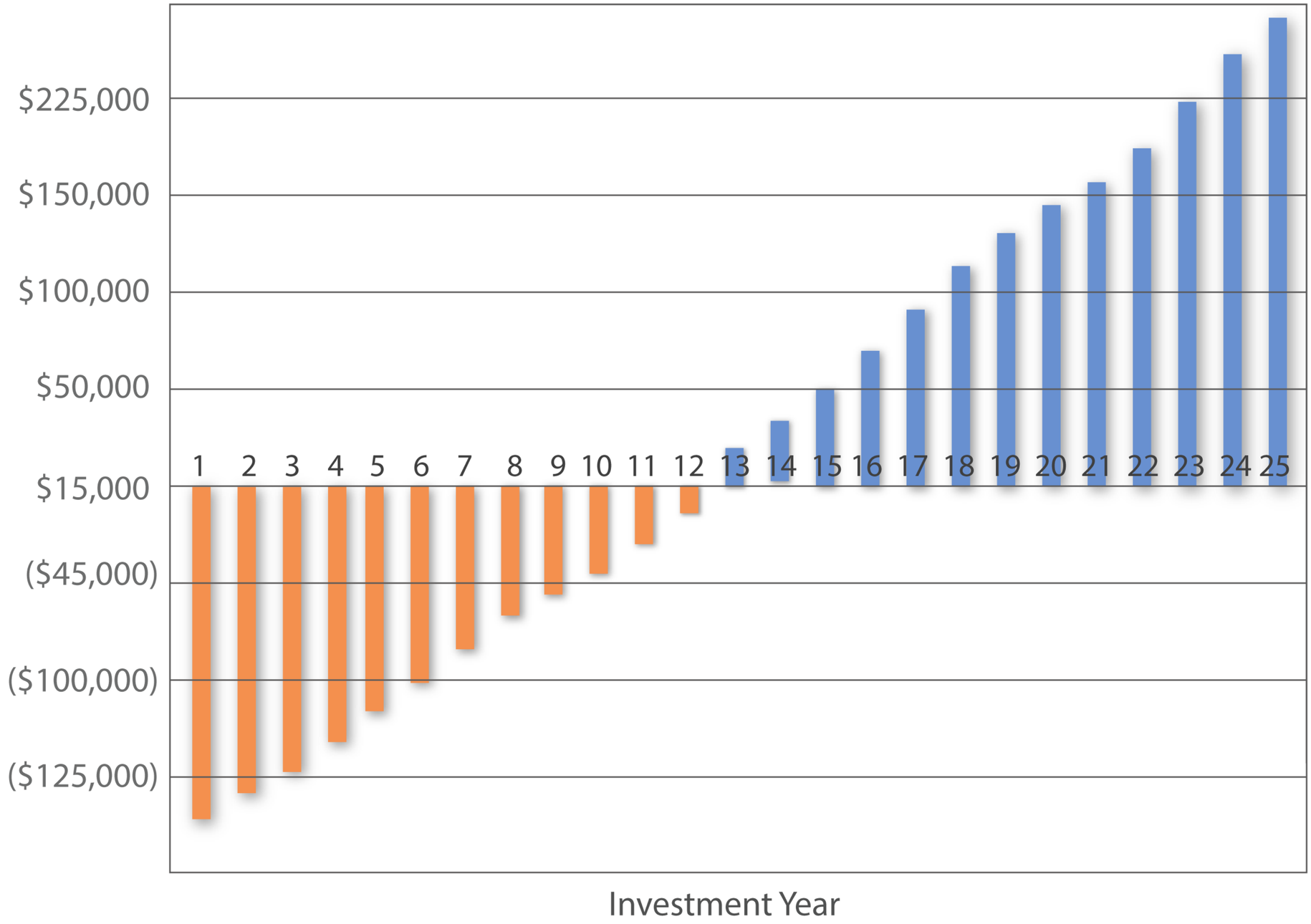


Cash Scenario

$160,410

Year 13: 15,544

$14,728

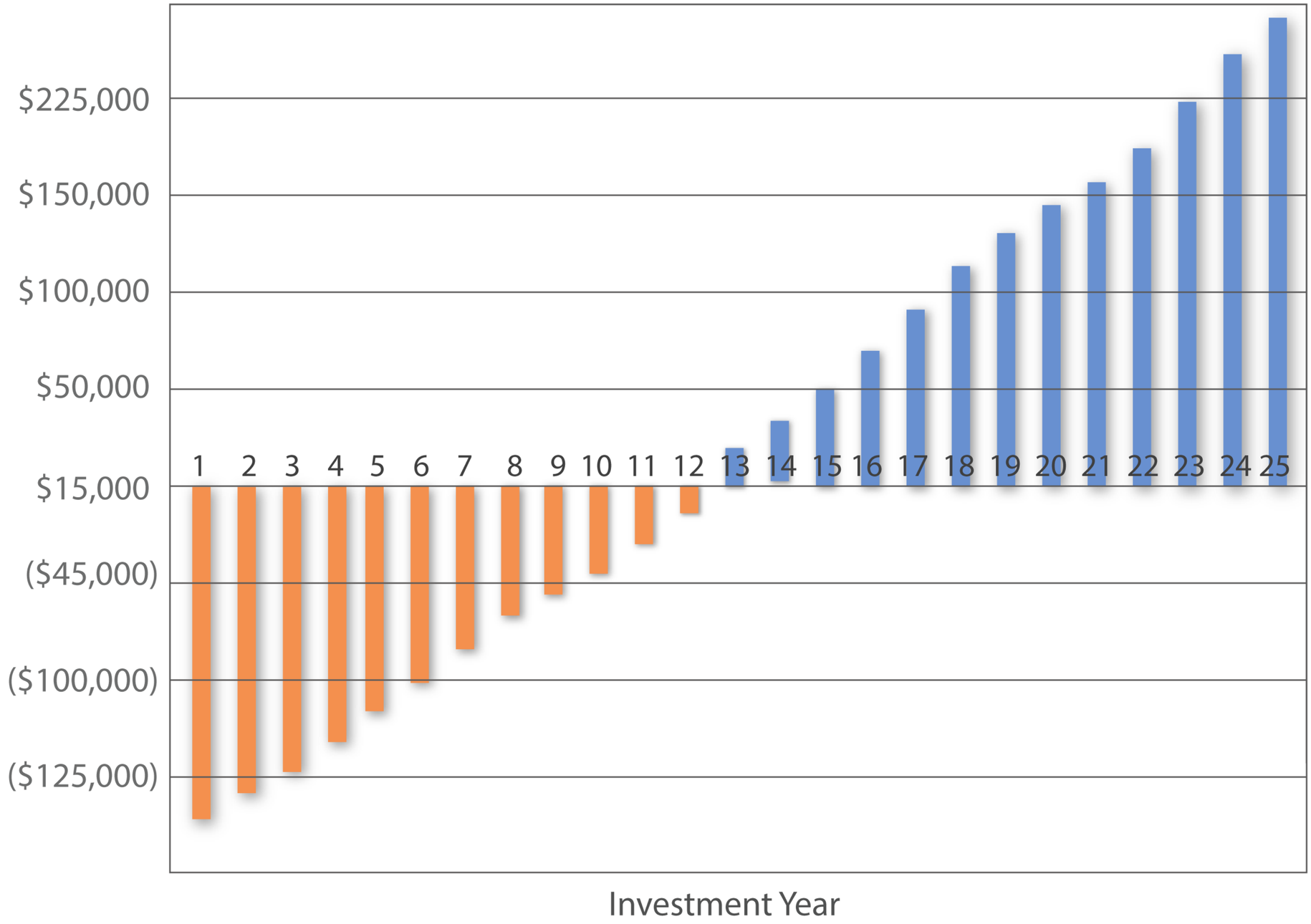


Cash Scenario

$160,410

Year 25: 20,869

$234,312

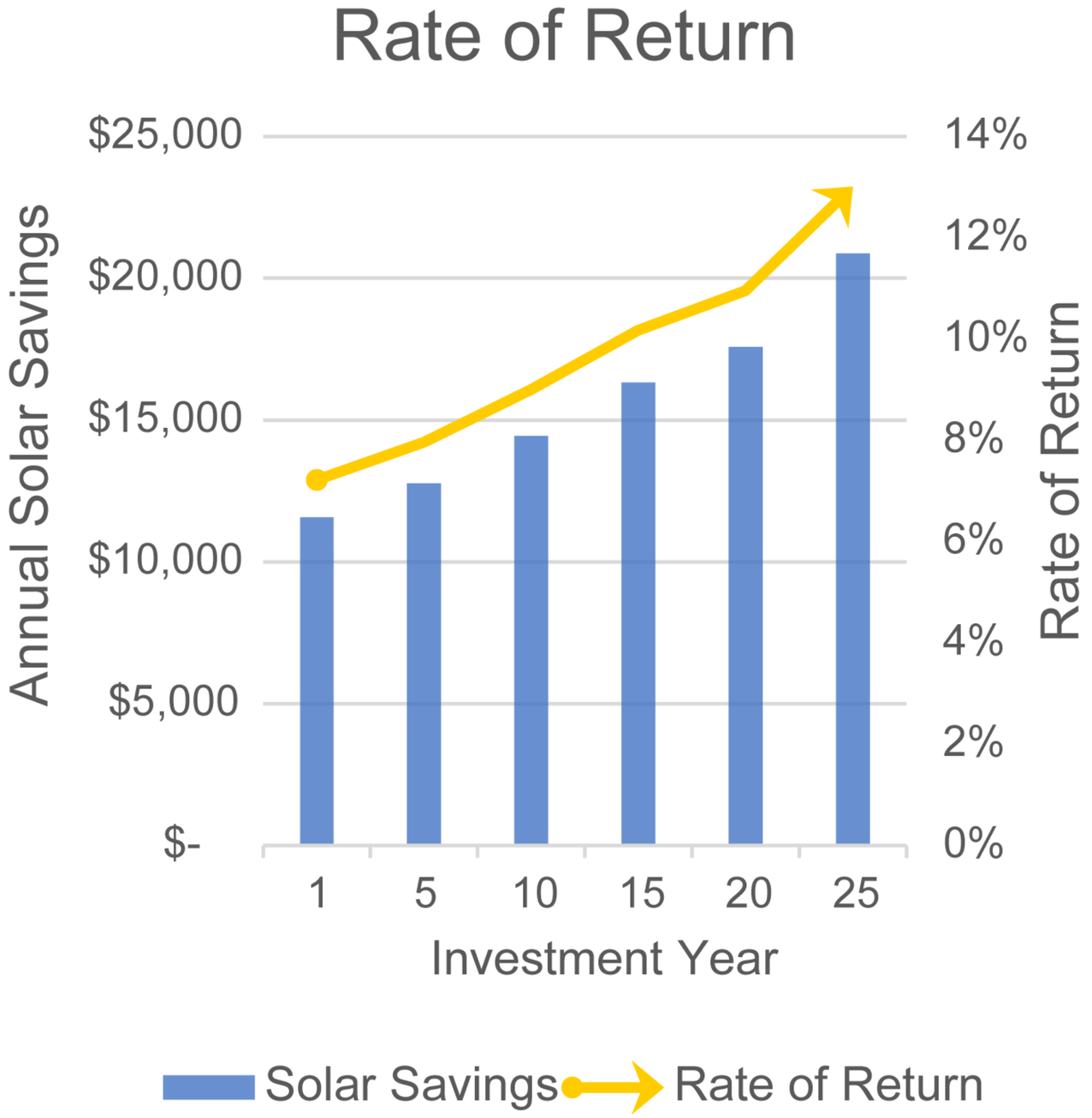


Cash Scenario

$160,410

Year 25: 20,869

$234,312



County Electric Expense

County Building Example

- Annual Electric Expense: $11,578

Entire County

- Actual Annual Electric Expense: $833,148 (2017)

Paying For It

Lease Purchase Agreements

- Non-appropriation clause so not classified as debt
- $300,000 to $5,000,000 on equipment
- 100% loan-to-value – $0 out of pocket
- ~5% interest and lower on large projects
- 10-year lease-purchase – then we own it!
- Can cancel lease if funding is not available

Paying For It

DSIREusa.org

- Incentive programs for renewables and efficiency
- 101 programs in North Carolina alone!
- Schools, Agriculture, Business, Residential…

Steps

1. Establish a goal
2. Develop a project development plan
3. Assess solar site opportunities
4. Issue a solar RFP
5. Review and evaluate project proposals
6. Select proposal(s)
7. Build and commission project

Steps

1. Establish a goal
2. Develop a project development plan
3. Assess solar site opportunities

Steps

The Solar Foundation – SolSmart for Municipalities

Steps

The Solar Foundation – SolSmart for Municipalities

FREE technical support on:

- Site Selection for Solar Energy Systems
- Feasibility Analyses
- Community engagement
- Integrating solar + storage and solar + EV technologies
- Streamlining permitting processes
- And more!

Sign on to be a SolSmart Participant – Information included in Commissioner Packet

http://www.solsmart.org/

Steps

4. Issue an RFP

- RFP Included in Commissioner Packet
- 3 groups
  - Systems less than 20kW
  - Systems less than 100kW
  - Systems more than 100kW
- Identify Solar Site Opportunities – SolSmart – Works with NC Clean Tech and would provide a *free* analysis of solar opportunities in Chatham County

Steps

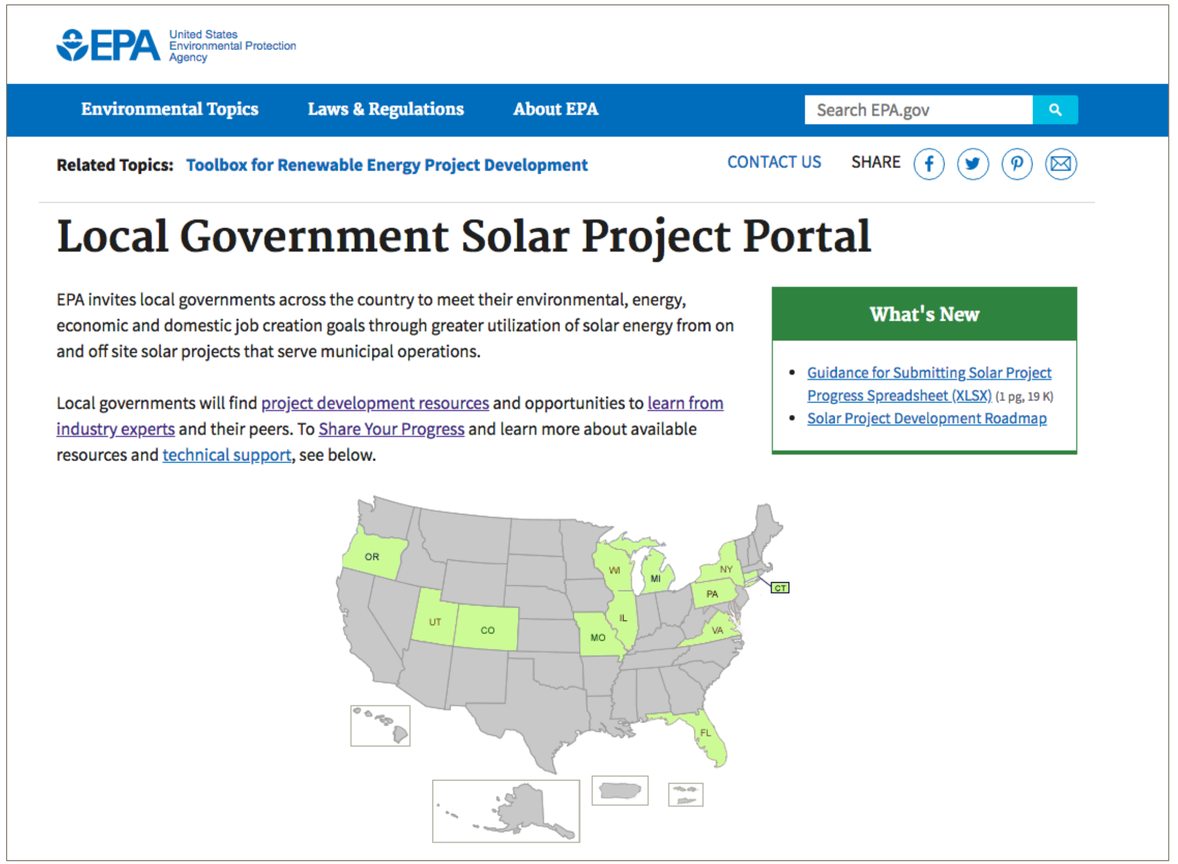
4. Issue an RFP

- September – Release RFP
- October – Receive RFP questions, info session, reply to questions
- November – Proposals due

Other Resources

Local Government Solar Project Portal

- EPA support and resource site for municipalities
- Resources
- Technical Support



https://www.epa.gov/repowertoolbox/local-government-solar-project-portal

Thank you!

Questions?