



Solar Energy for Maine Non-Profits

Saving Money and Fossil Fuel Consumption with the Sun





About ReVision Energy

Certified



Corporation

bcorporation.net

Experience: 7,000+ solar energy systems installed since 2003

Credentials: NABCEP Certifications, Master Trade Licenses, extensive professional training & certification

Vision: Transition Northern New England to a clean, solar energy powered economy while creating positive social change

ReVision Energy's Mission

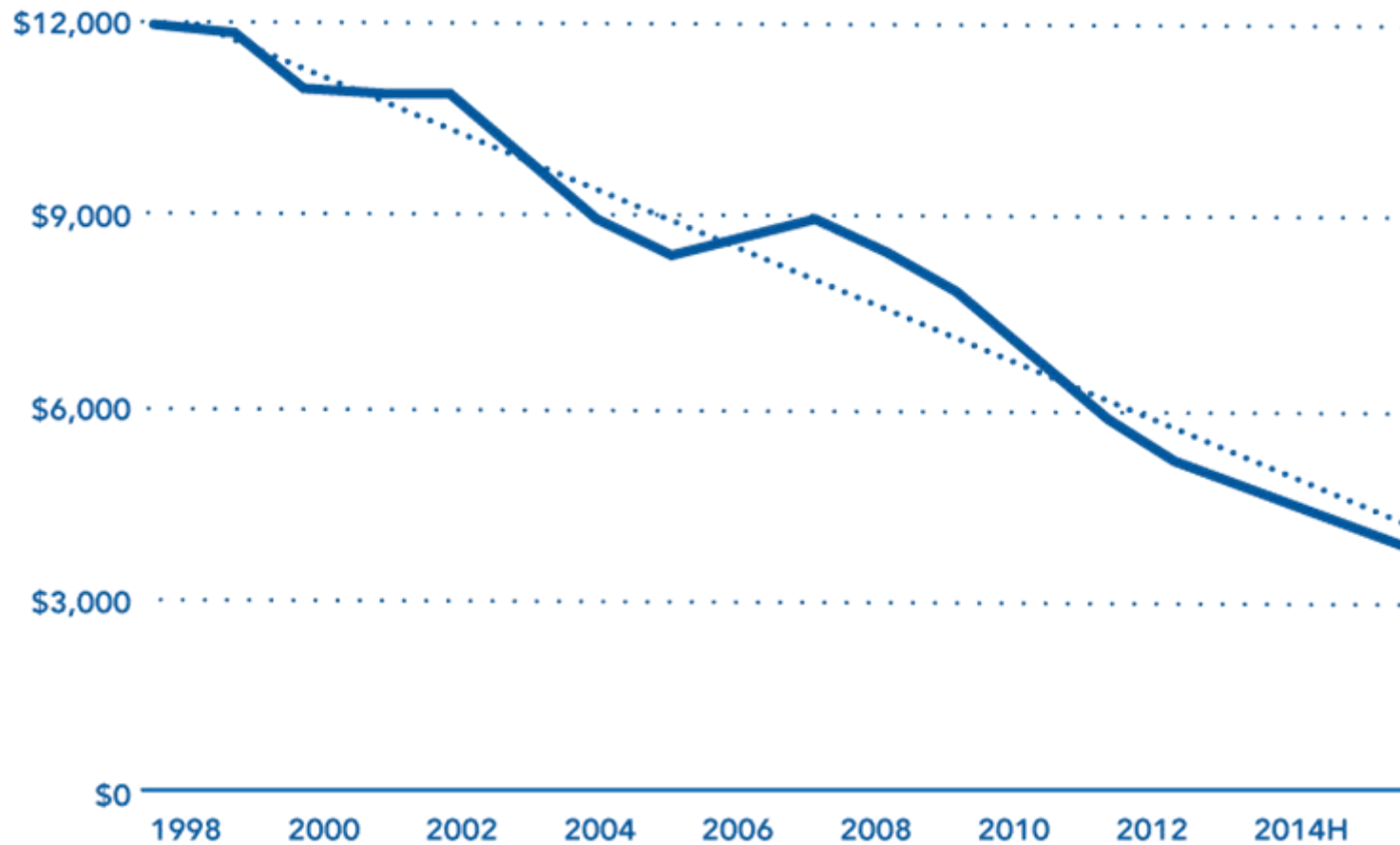
To accelerate the transition to clean, renewable energy sources. To help local schools, governments and non-profits access renewable energy through advantageous financing partnerships.



74 kilowatt PPA project at Proctor Academy in Andover, NH



U.S. Installed Cost of Solar Power (\$/kW)



Source: Lawrence Berkeley Labs



An aerial photograph of a coastal town on the French Riviera. The town features terracotta-roofed buildings and a harbor filled with numerous sailboats. The water is a vibrant blue, and the surrounding hills are lush with greenery. The scene is framed by pine trees in the foreground.

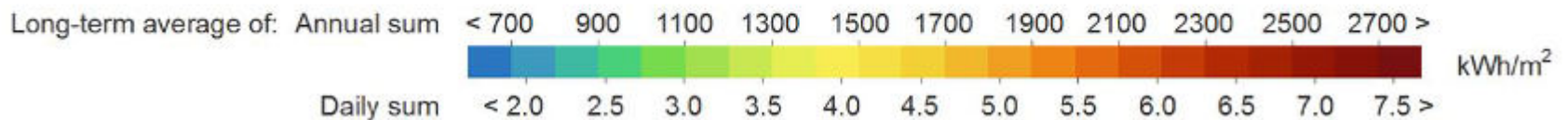
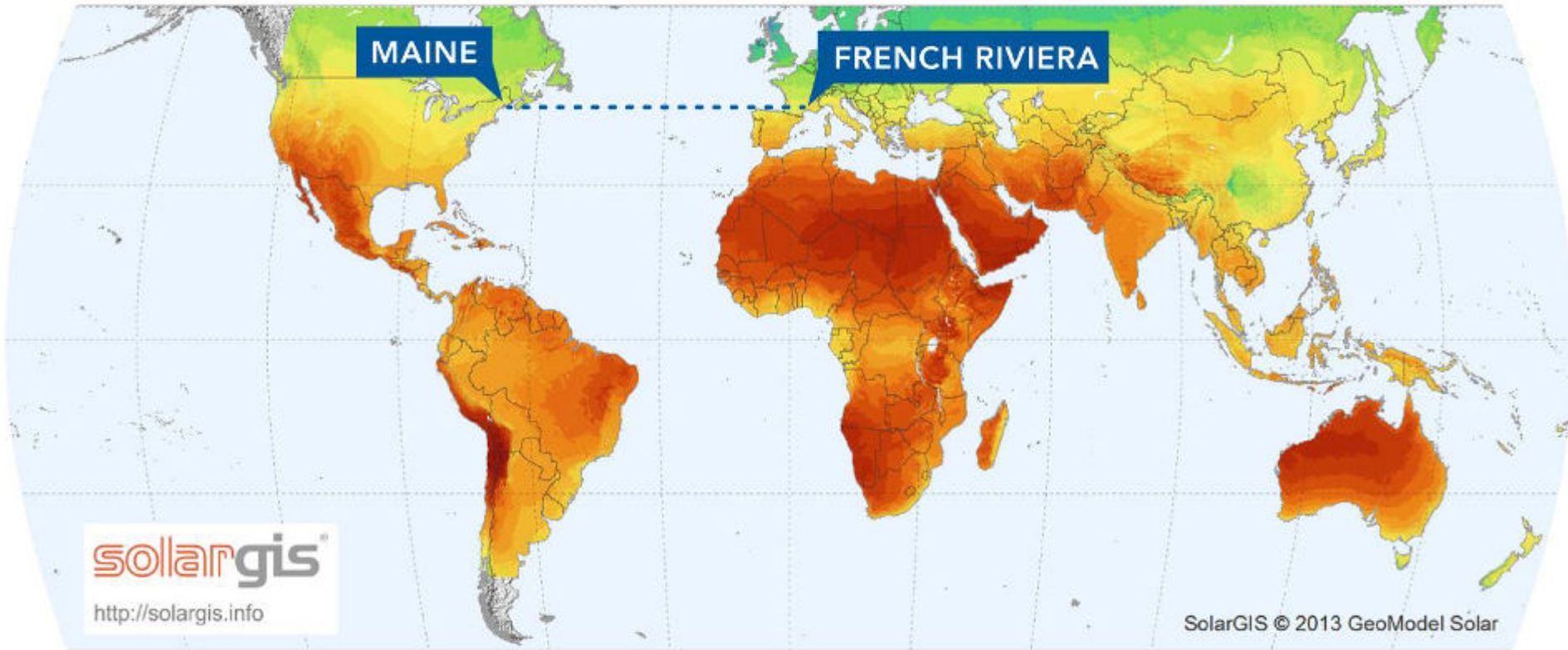
Do we get enough
sunshine in New England?

Maybe not as much as the
French Riviera but...

World Map of Solar Potential

WORLD MAP OF GLOBAL HORIZONTAL IRRADIATION

GeoModel
SOLAR



Rooftop Solar Potential in the U.S.

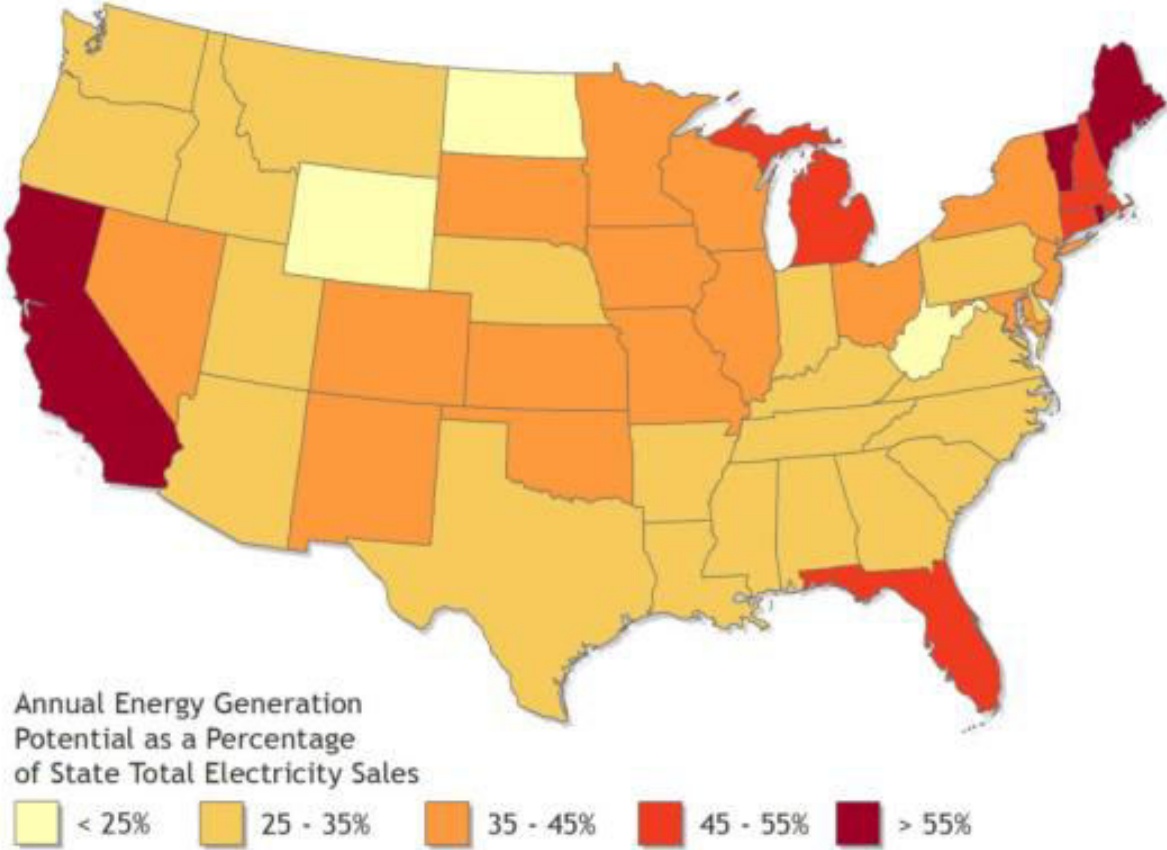


Figure ES-2. Potential rooftop PV annual generation from all buildings as a percentage of each state's total electricity sales in 2013

Grid-Tied Solar and Net Metering



Grid-Tied Solar Electricity

How It Works:

1. Sun hits panels, creating DC electricity
2. Solar inverter converts DC power into AC power for household needs such as lights, television, computers, etc.
3. Excess power is sent to the grid, crediting your monthly bill



Challenges of Solar for Non-Profits

- Schools/Governments/Non-Profits cannot directly monetize
 - Outright purchase ~20-25 year payback
- Instead of buying outright, Power Purchase Agreement
 - No upfront cost to non-profit
 - Indirectly takes advantage of federal tax incentives
 - Speeds up payback period



Solar PPA Structure

- Non-profit licenses roof/land space to Investor
- Investor finances, builds, owns and operates for 6-30 years
- Investor sells solar electricity to non-profit, at a competitive rate
- After 6 years, non-profit can purchase at ~50-60% upfront price



Solar PPA Responsibilities

Investor

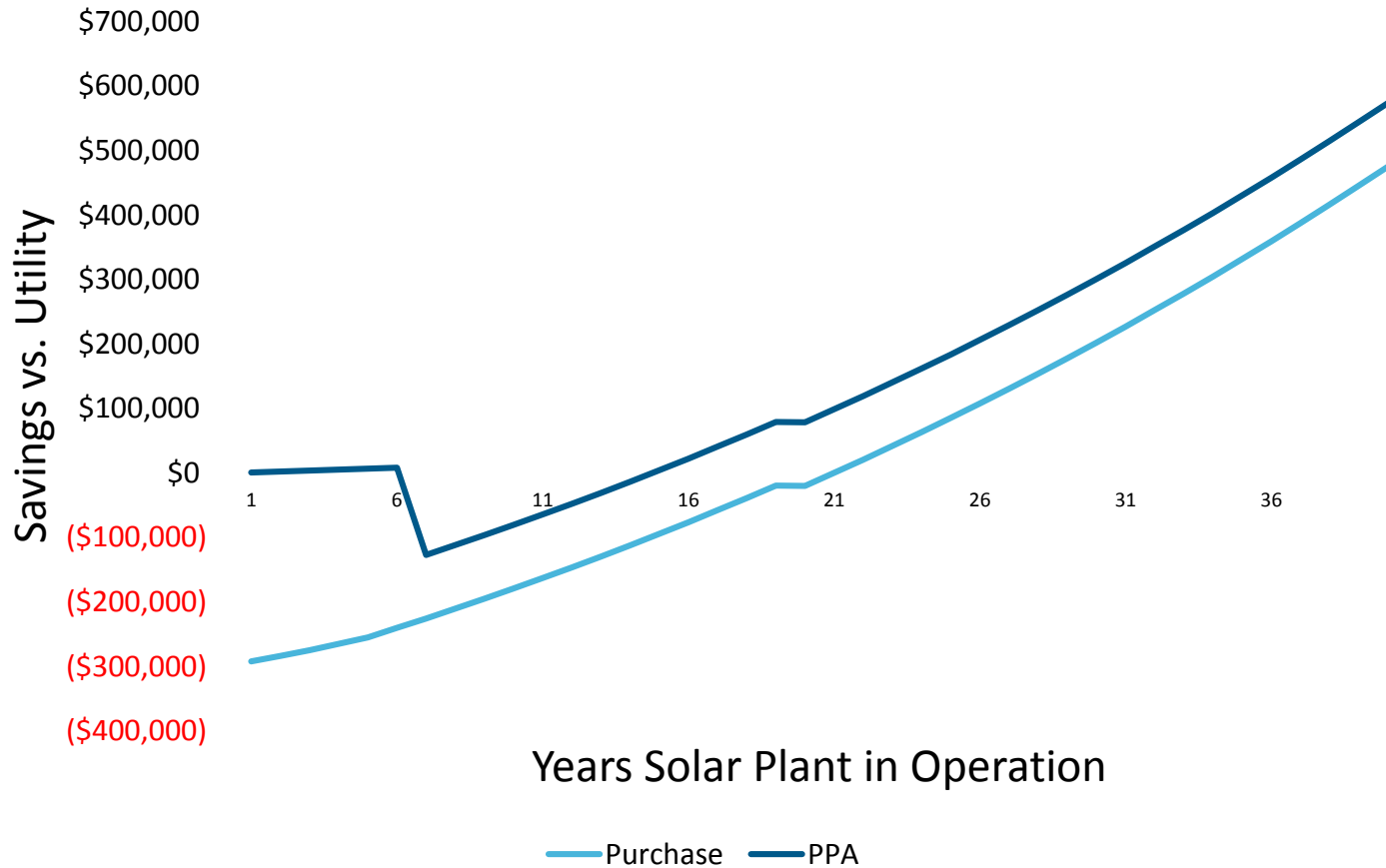
- Provide capital
- Build/Own/Operate > 6 years
- Recoup Investment through:
 - Federal Tax Credit
 - Depreciation & Tax Benefits
 - Energy Payments from Host
 - Grants, Rebates, REC Sales
 - Buyout Option (After Year 7)

Non-Profit

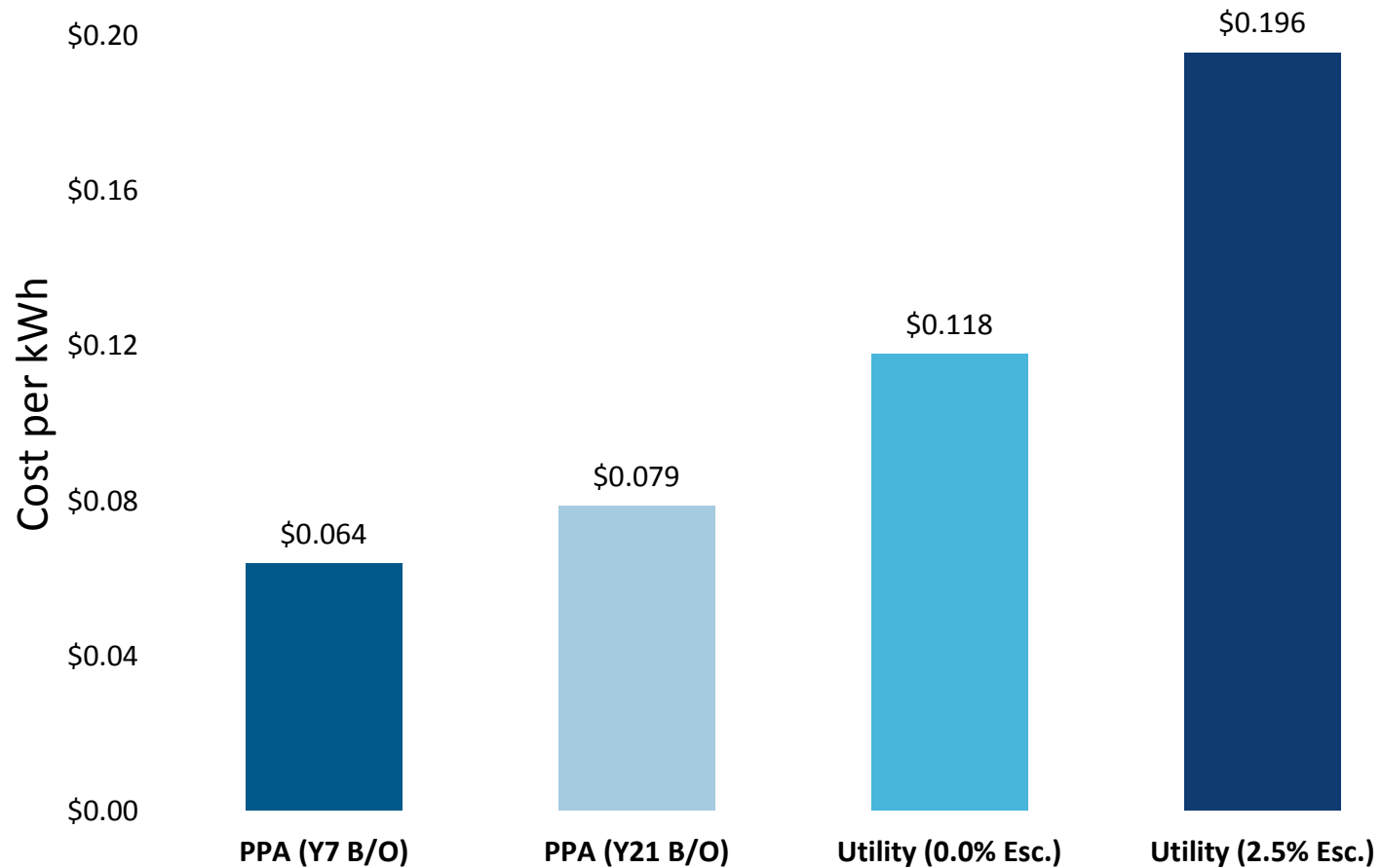
- Provides Roof/Ground Space
- Net Meters with Utility
- Off takes all electricity
- Buys out equipment after Year 7



Solar Ownership



40 Year Cost of Energy



170 kW PPA Project for Thomas College

Waterville, ME



42 kW PPA Project for The Nature Conservancy

Brunswick, ME



82 kW Ground Mount for Bigelow Labs

East Boothbay, ME



36 kW PPA Project for Kieve-Wavus Education

Installed on the Wavus Campus



16 kW PPA Project for the Morris Farm

Wiscasset, ME



15 kW PPA Project for the Damariscotta Baptist Church





15 kW PPA Project
for Causeway Club
Southwest Harbor, ME

42 kW installation for Maine Audubon

Falmouth, ME



37 kW PPA for Friends School

Cumberland, ME



Solar for Northern New England Schools

- 7 kW- St. Ansgar Lutheran Church
- 10 kW- Sanford UU Church
- 13 kW- Natural Resources Council of Maine
- 15 kW- The Gathering Place
- 24 kW- Saco Food Pantry
- 34 kW- Riding to the Top Therapeutic Stables
- 36 kW- First Parish Church- Yarmouth
- 55 kW- Avesta Housing
- 50 kW- Boothbay Region YMCA
- 67 kW- Midcoast Hunger Prevention Program
- 87 kW- Chewonki Foundation
- 102 kW- Maine Organic Farmers and Gardeners Association (MOFGA)



7.8 kW Rooftop Array for the Lincolnville Community Library



Lincolnvile Center Schoolhouse

Originally built in 1849



Lincolnvile, Ctr. Me.

J. H.





CENTER SCHOOL

LET'S MOVE IT



Small green plaque with illegible text







“Every cent that we save on this electric bill will go to scholarships for kids who need help. That’s the biggest win for us.”

- Glenn Cummings, President, Good Will Hinckley School.





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