



Presentation for Trinity Lutheran Church – Camp Hill



January 20, 2022

# Executive Summary

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- ▶ Solar Renewable Energy LLC (“SRE”) is proposing a private-public partnership with Trinity Lutheran Church (“TLC”) for installation of an approximately 170kW solar array at the Church at 2000 Chestnut Street, Camp Hill to generate 220,000 kWh of electricity annually.
- ▶ Proposed solar array is to be interconnected to TLC’s electric service.
- ▶ A roof allowance of \$208,920 is included in the solar proposal to immediately replace 17,410 sq. ft. of bad membrane roofing on the main flat roof building area.
- ▶ SRE and TLC would enter into a long-term solar contract called a Power Service Agreement (PSA)
  - ▶ **No upfront investment** to TLC





# Proposed Project: Trinity Lutheran Church



## 2000 Chestnut St., Camp Hill

### Rooftop Ballasted Solar Array:

- System Size ~170kW dc
- Estimated to produce 220,000 kWh of electricity in year 1
- Ballasted rooftop solar array with 10% tilt
- 415W or similar Tier I solar panels
- Will offset 100% of TLC's electric usage.
- Roof replacement allowance of \$208,920 included in proposal for main flat roof replacement.
- SRE contracted/preferred partner to perform the work is Houck Construction.



# White Membrane Main Roof Replacement:



## 2000 Chestnut St., Camp Hill – White Flat Membrane Roof – replacement:

- Roof Size: ~17,410 sq ft.
  - Payback assessment must consider roof benefit.
  - Current modeling assumes 17,410 sq ft white membrane roof replaced.
- Roof replacement allowance of \$208,920 included in proposal for roof replacement.
- SRE contracted/preferred partner to perform work is Houck Construction.



# Solar Power Service Agreement

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## Structure:

- ▶ A Solar Renewable Energy affiliated LLC will finance, develop, install and own the solar PV system and provide a service contract to Trinity Lutheran Church over a 28-year term
- ▶ Trinity Lutheran Church will have the option to purchase the solar PV system at fair market value at the end of year 6, 10, 15, 20 and 28 of the PSA

## Benefits to Trinity Lutheran Church:

- ▶ Provides green, sustainable energy with a smaller carbon footprint
- ▶ Significantly lower cost of electric for Trinity Lutheran Church
  - ▶ **See slide 8**, which shows recent electricity price increases in PPL (electric utility rates have **increased 59% over the last 18-months**).
  - ▶ **Expiration of current electric contract will present significant electric supplier price increase issues that are avoidable with solar.**
- ▶ **No up-front investment** in solar PV system is required with roof replacement unless allowance exceeded.
- ▶ Trinity Lutheran Church owns all electricity and solar renewable energy certificates (SRECs) generated by system during term of the PSA

Trinity Lutheran Church will be responsible for providing property damage insurance for the replacement value of the system during the term of the PSA



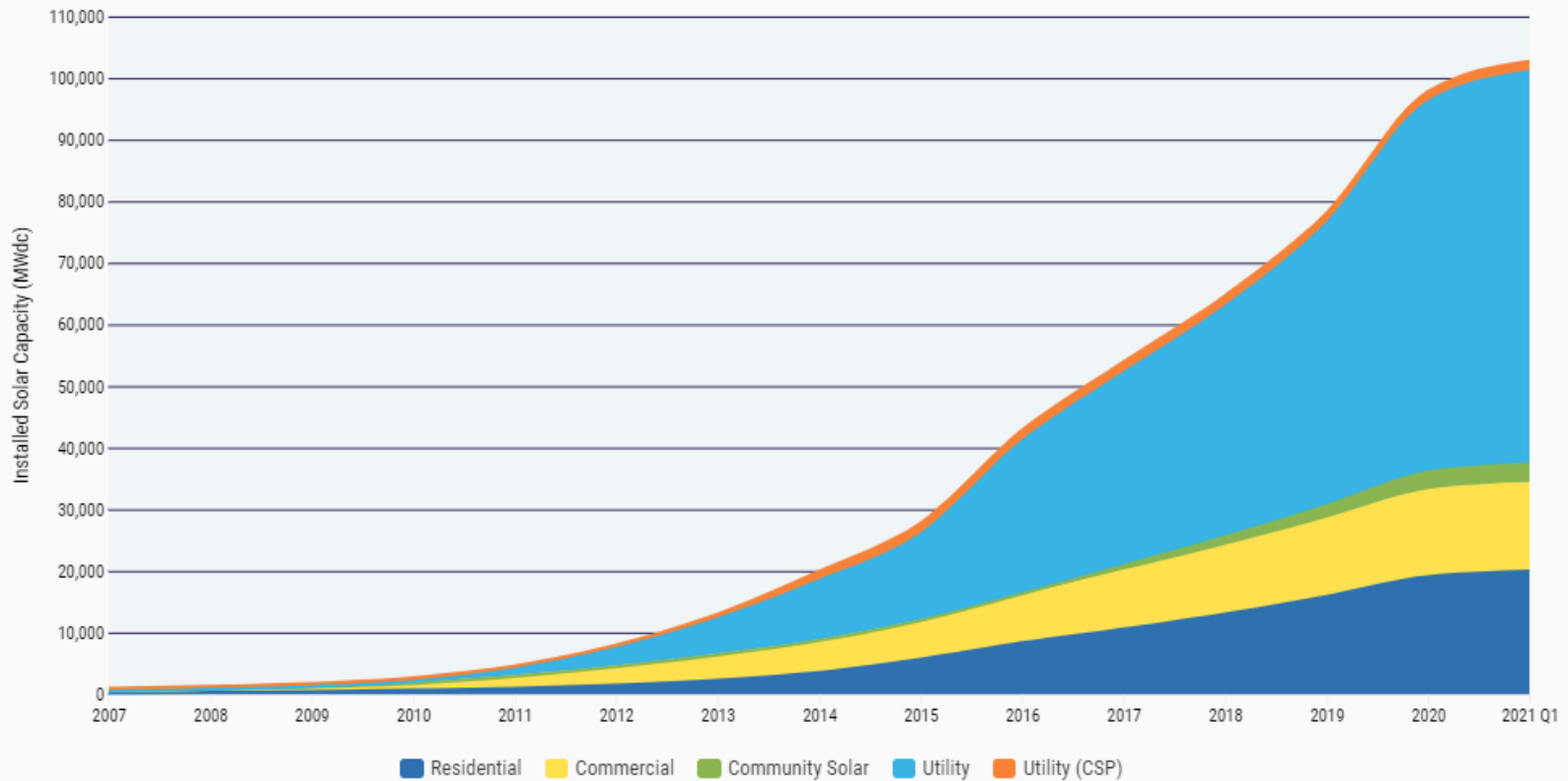


# Sample SRE Ballasted Rooftop Arrays:



# Commercial Solar Industry Insight

## Cumulative U.S. Solar Installations



Source: SEIA/Wood Mackenzie Power & Renewables U.S. Solar Market Insight 2021 Q2



# Energy Pricing Trend



- PPL Price to Compare has increased 59% in the last 18 months. Expiring contracts will increase.





# Environmental Effects of Solar (Annually)

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- ▶ 220,000 kWh of clean Electricity Produced Annually
- ▶ 5,700 Trash Bags of Waste Recycled Instead of Landfill
- ▶ 150,000 Pounds of Coal saved
- ▶ 15,000 Gallons of Gasoline saved
- ▶ 31 Cars off the road
- ▶ 2,200 Trees planted
- ▶ 40x over the life of the array
  
- ▶ <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>

# Next Steps

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- TLC agrees to proceed with roof replacement and solar.
- TLC identifies current electric contract end date and meter location.
- SRE will further analyze/investigate savings, opportunities and perform further site and roof review.
- TLC execution of Solar Power Service Agreement (PSA) for roof and solar.
- Roof replacement and scope determination will proceed first.
- SRE simultaneously proceeds with solar array permitting, interconnection approval, etc. Solar construction commences upon roof completion and all approvals.
  - No upfront investment by TLC



# Contact Information

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