

THE  
**OPEN SOURCE**  
RENEWABLE ENERGY ECOSYSTEM

**Phase 1 Summary**  
*November 2024*



This project is supported by  
National Science Foundation grant TIP -2228959  
Impact Allies – [www.impactallies.com](http://www.impactallies.com)



# GOALS

---

1. Obtain professional training on implementing, managing, and growing an OSE.
2. Survey the renewable energy sector for relevant open-source ecosystem products and opportunities.
3. Build the governance structure for the renewable energy OSE at Impact Allies
4. Provide education to the RE community to grow the RE OSE usage and resources.
5. Write and submit Phase II for the RE OSE



# GOAL 1

---

1. Obtain professional training on implementing, managing, and growing an OSE
  - a) Board of Directors Established
  - b) Roles, Responsibility and Organization Chart Defined
  - c) Relationships with broader Open Source community Formed
  - d) Suite of Documents Ratified
    - I. Release of Liability
    - II. Confidentiality & Privacy Agreement
    - III. Security and Data Protection
    - IV. Sharing, Adapting, and Attribution Licenses
    - V. Terms and Conditions



# GOAL 1

---

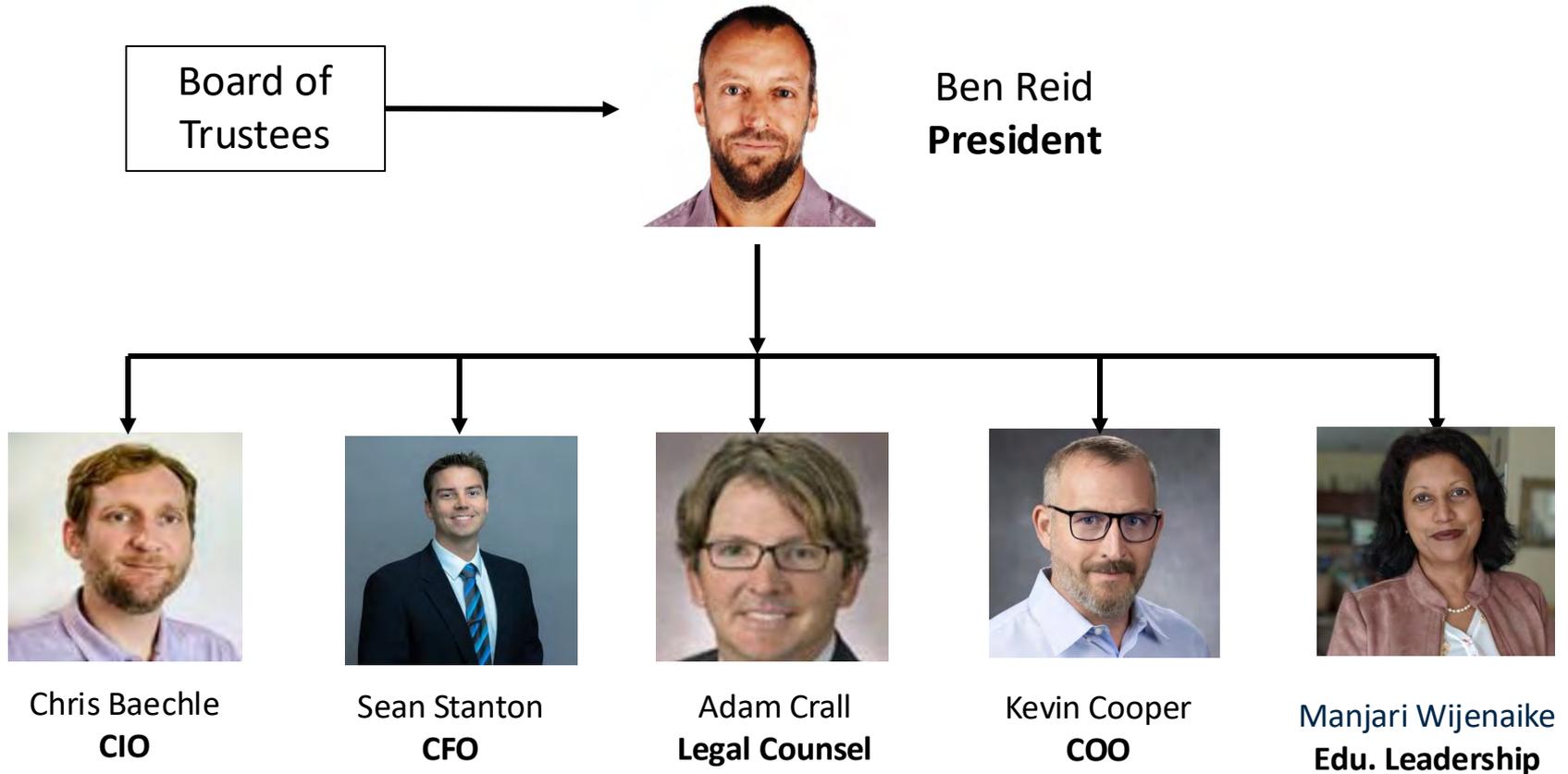
## Board of Directors

- Ken Walz, **Executive Director and PI, CREATE Renewable Energy Center**
- James Auld, **Director of External Training Initiatives, NextEra Energy**
- Cody Swann, **President, Gunner Technologies**
- Frank Dunn, **President, Rhode & Schwartz**
- Natasha Mitchell, **Supervisor of Product Services, United Utility**
- Stacey Presnell, **Director Workforce Development, Energy NorthWest**
- Brian Below, **Chief Operating Officer, Solidia Technologies**
- Leo Lagos, **Executive Director, Florida International University**



# GOAL 1

## Organization Chart



# Professional Development

---

**Five live PD sessions increase use of all the components of the RE OSE. All told, 60 faculty & 11 industry representatives were trained on components of Impact Allies RE OSE. These included:**

- 1 day workshop on how to add RE assets and/or access data from RE assets @ National Electric Vehicle and Renewable Energy Conference – 8/25/22 in Ft. Pierce, FL at Indian River State College.
- 1-day workshop on IV Curve Tracer (hardware) was held at the High Impact Technology Conference – July 25, 2023, in Atlanta, GA at the Omni Hotel
- 1.5-day workshop on SCADA software platform was held at the Cyber Across Disciplines (CYAD) Conference on August 2-3, 2023, at Moraine Valley Community College in Chicago, IL.
- 1.5-day workshop on SCADA software platform was held June 4-5, 2024 at Indian River State College.
- 0.5-day workshop on Big Data and AI usage was held at NSF ATE PI Conference in Washington DC on October 24, 2024.



**IMPACT**  
allies

Expertise Academic Solutions Open Renewable Energy Research & Evaluation

Let's Talk

# Open Source Renewable Energy

80+	347321	30+	10+	300+
Users	MB of Data	Colleges/Universities	RE Employees	OS Resources

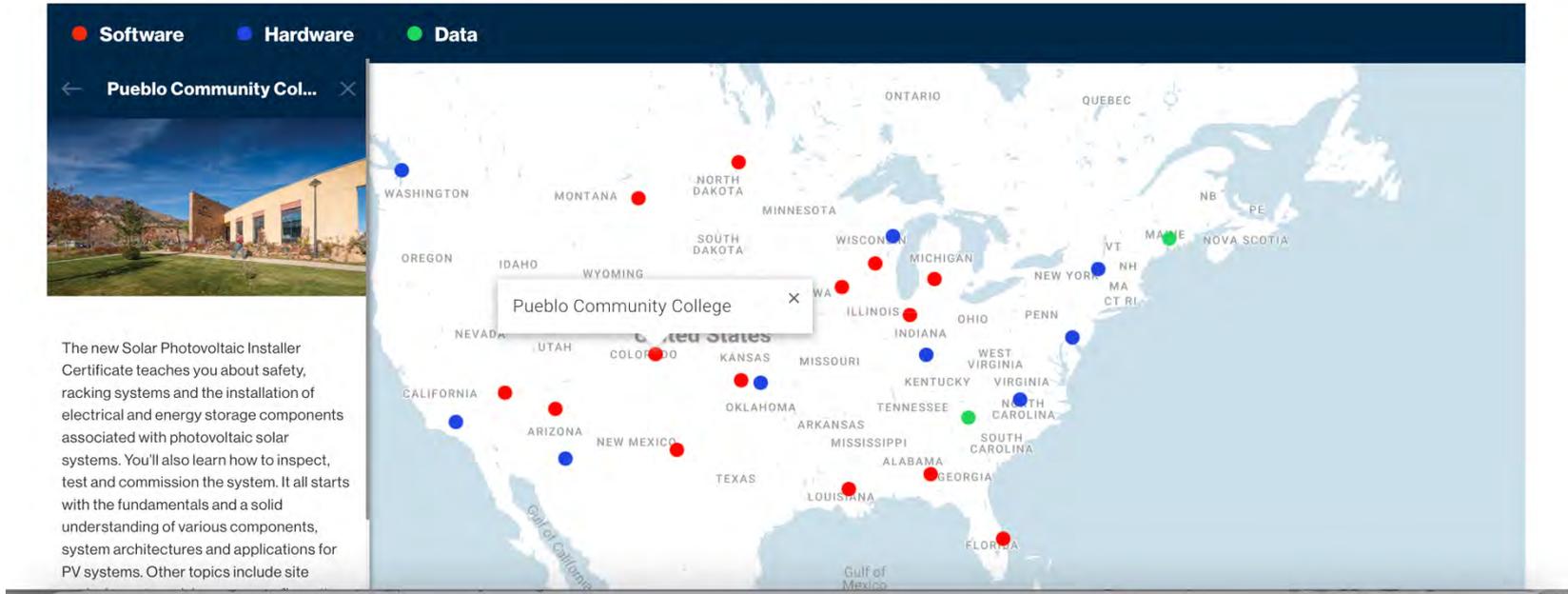
Renewable Open-Source Ecosystem can be found @

<https://www.impactallies.com/openre>



This project is supported by  
National Science Foundation grant TIP -2228959  
Impact Allies – [www.impactallies.com](http://www.impactallies.com)

## Current Users



Renewable Open-Source Ecosystem can be found @

<https://www.impactallies.com/openre>



# The RE OSE

The screenshot shows a web browser at <https://www.impactallies.com/openre>. The navigation bar includes the Impact Allies logo, menu items for Expertise, Academic Solutions, Open Renewable Energy (selected), and Research & Evaluation, and a 'Let's Talk' button. The main content area features six categories, each with an icon, a title, and 'Access' and 'Add' buttons:

- 01 - Software**: Icon of a code editor with </> symbols.
- 02 - Hardware**: Icon of a microchip.
- 03 - Data**: Icon of a database cylinder.
- 04 - OERs**: Icon of two overlapping document pages.
- 05 - Research**: Icon of a network diagram with a central node.
- 06 - Teaming Partners**: Icon of three people icons connected by lines.

Renewable Open-Source Ecosystem can be found @

<https://www.impactallies.com/openre>



This project is supported by  
National Science Foundation grant TIP -2228959  
Impact Allies – [www.impactallies.com](http://www.impactallies.com)



# Professional Development



Images from IV-Curve Tracer PD – July 2023



This project is supported by National Science Foundation grant TIP -2228959  
Impact Allies – [www.impactallies.com](http://www.impactallies.com)



# Dissemination

## Presentations

- **9 national presentations and 1 poster**
  - Across 6 states
  - Reaching over 1,000 people



## Media

- **Developed marketing material**
- **Published articles in 3 different RE newsletters**
- **Part of 3 VIP opportunities including:**
  1. Meeting at the White House
  2. Meeting with Governor DeSantis
  3. Meeting with UN Climate Change Council

