



#### **WASHINGTON**

3211 Martin Luther King Jr Way S Seattle, WA 98144 (206) 707-9937

#### **OREGON**

1887 SE Milport Milwaukie, OR 97222 (503) 420-8680



## Agenda

- Overview
  - Video
- Technical Specs
  - Electrical
  - Mechanical
- Financial Specs
  - Cost
  - Pro forma
  - RECS
  - Incentives
- Performance
  - Production (annual and daily)
- Trends
  - Efficiency
  - Inverters
- Storage

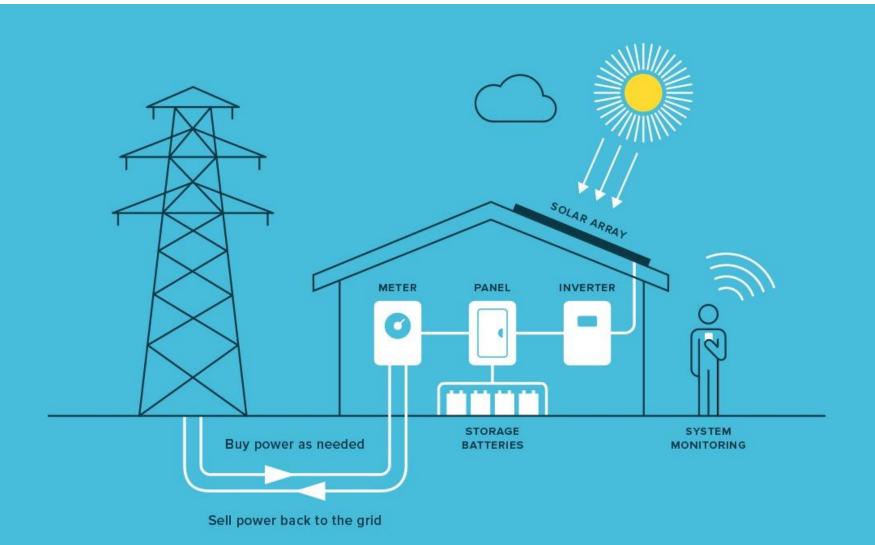




## Kingston Community Solar 74.96kW



## **Solar Basics**





## **Technical specs**

#### **SYSTEM OVERVIEW**

- 74.96kWDC
- (263) 285W Itek Modules (Made in Bellingham)
- (9) Solectria 6600 Inverters
- 240V Balanced Across 120/208V
- 126% DC to AC Ratio

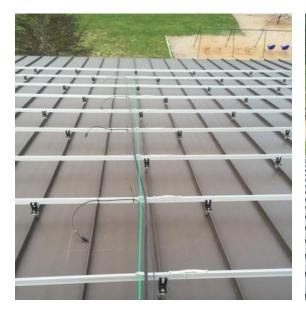
#### **DESIGN CONSIDERATIONS**

- Electrical (Energy and Power) Performance
- Financial

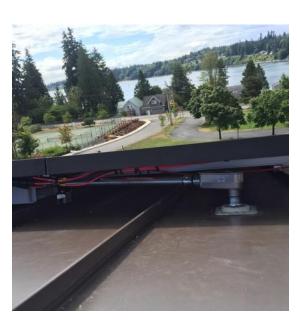




## **Technical - Mechanical**

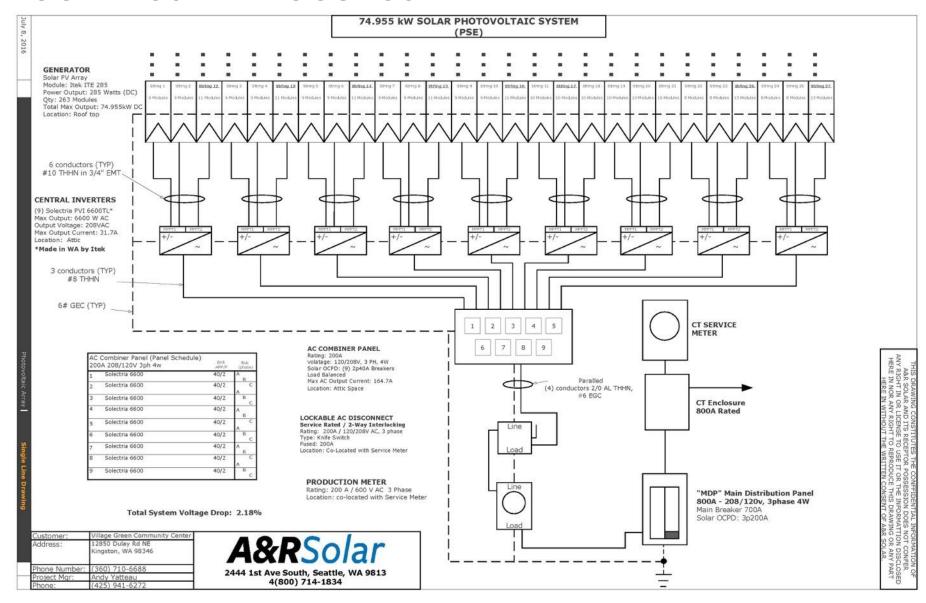








### **Technical - Electrical**





## **Technical - Electrical**





#### **Trends**

#### TRENDS IN SOLAR

- Module Efficiency
- Inverters
  - Stringing
  - "Smart" Rule 21
  - Anti-islanding
  - Broader operating conditions
  - Dynamic volt/var operations dynamic reactive power compensation
  - Advanced communications
  - Power controls
  - Remote disconnect
- Storage





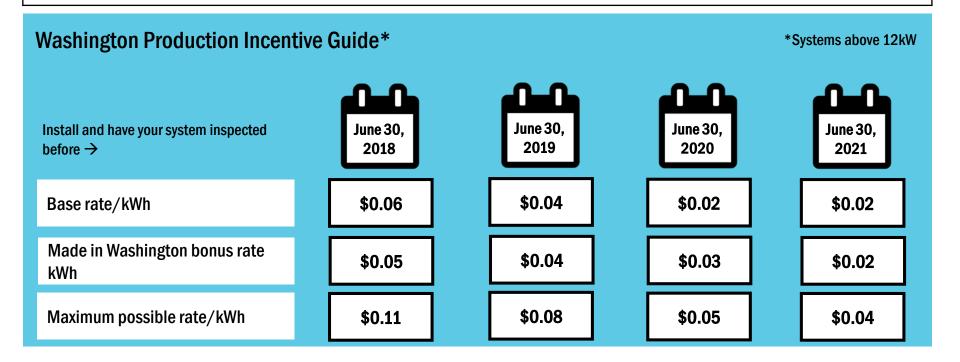
### **Incentives for Businesses**

- ► Washington Production Incentive

  Receive up to \$25,000 per year for eight years
  or up to 50% of the total system cost
- Net Metering Your meter spins backwards; the credit is applied to reduce your bill.

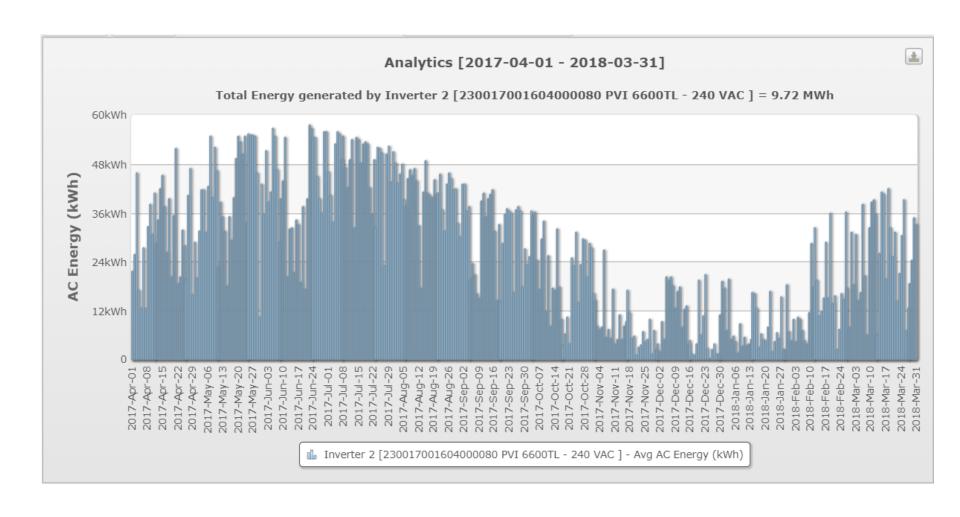
- Federal Income Tax Credit
  30% of the full system price
  (extended through 2019)
- ► MACRS Business Depreciation

  Reduction in tax liability for registered businesses



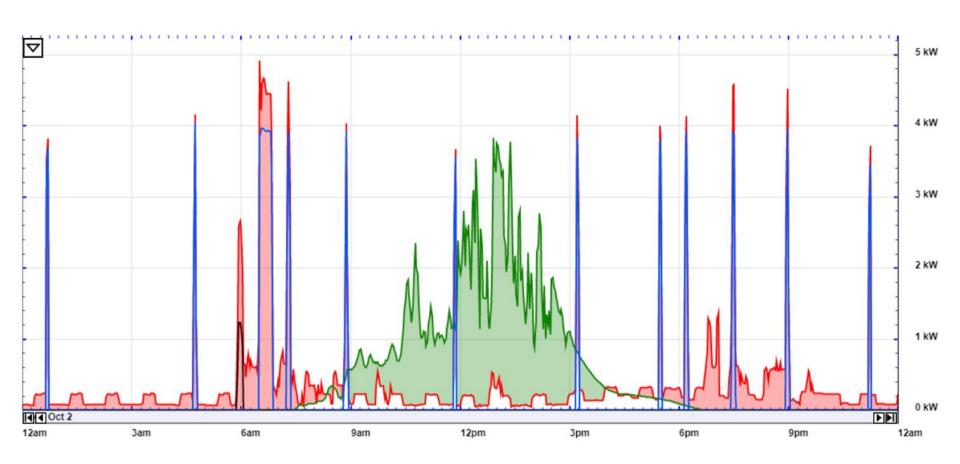


### **Performance Annual Production**



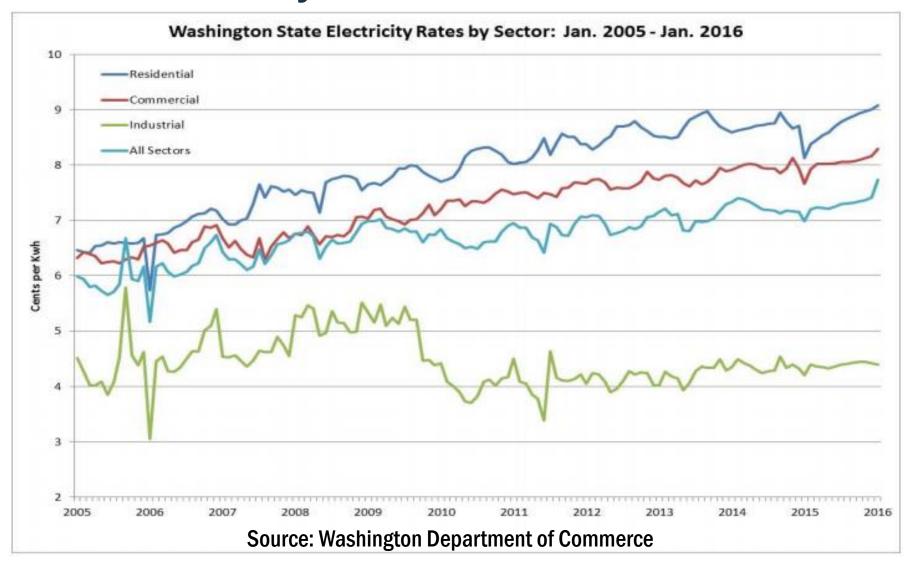


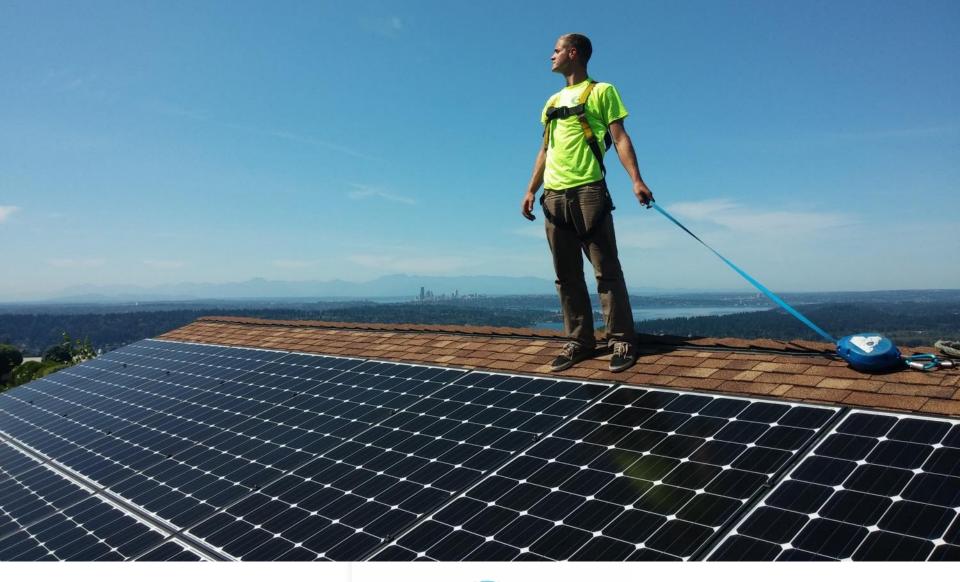
# **Performance Daily**





## **State Electricity Prices**

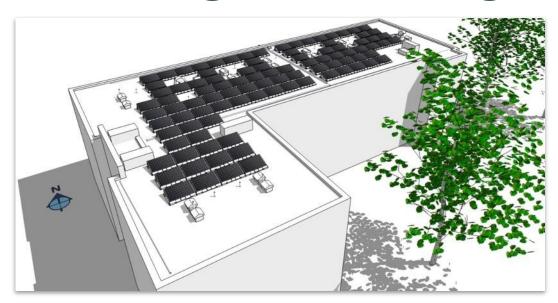








# Mounting and Racking: Ballasted











# **Mounting and Racking: TPO**













# Mounting and Racking: Torchdown



