NssL
EVERY MOVE COUNTS

EV Readiness Checklist

Preparing Your Yard for Electrification

Transitioning to electric vehicles is one of the most impactful steps you can take toward building a cleaner, more efficient yard operation. But readiness isn't just about installing chargers—it's about aligning infrastructure, data, and people to ensure long-term success.

This checklist will help you evaluate where your operation stands today and identify what's needed to move confidently into an EV future.

1. Site & Infrastructure Readiness

Evaluate whether your physical site can support EV adoption effectively.

- [ ] **Power Assessment Complete**
  Your utility provider has confirmed capacity and load availability for EV charging.
- [ ] **Charging Layout Planned**
  Potential charger locations and cable runs have been identified to avoid bottlenecks.
- [ ] **Permitting in Progress**
  Local zoning, environmental, and construction requirements have been reviewed or submitted.
- [ ] **Weather & Space Considerations**
  Yard design accounts for winter conditions, snow removal, and vehicle maneuvering near charging stations.

2. Fleet & Operational Data

Data-driven planning ensures your EV program fits your yard's unique operating rhythm.

- [ ] **Duty Cycle Analysis Conducted**
  Move counts, shift patterns, and peak windows have been logged and analyzed.
- [ ] **Idle Time and Dwell Data Captured**
  You know where inefficiencies exist — and how they'll improve through electrification.
- [ ] **EV Range Modeling Complete**
  Estimated route distances and load profiles have been compared against EV range capabilities.
- [ ] **Fleet Utilization Reviewed**
  Vehicle rotation and maintenance cycles have been mapped to optimize EV uptime.

3. People & Process

Successful electrification depends on training, engagement, and change management.

- [ ] **Training Program Developed**
  Operators, dispatchers, and maintenance teams are trained on EV safety and best practices.
- [ ] **SOPs Updated**
  New workflows for charging, battery management, and data reporting are in place.
- [ ] **Safety Protocols Established**
  Emergency procedures and site signage are ready for high-voltage operations.
- [ ] **Team Buy-In Secured**
  Stakeholders understand the operational and environmental value of the EV transition.

4. Measurement & Reporting

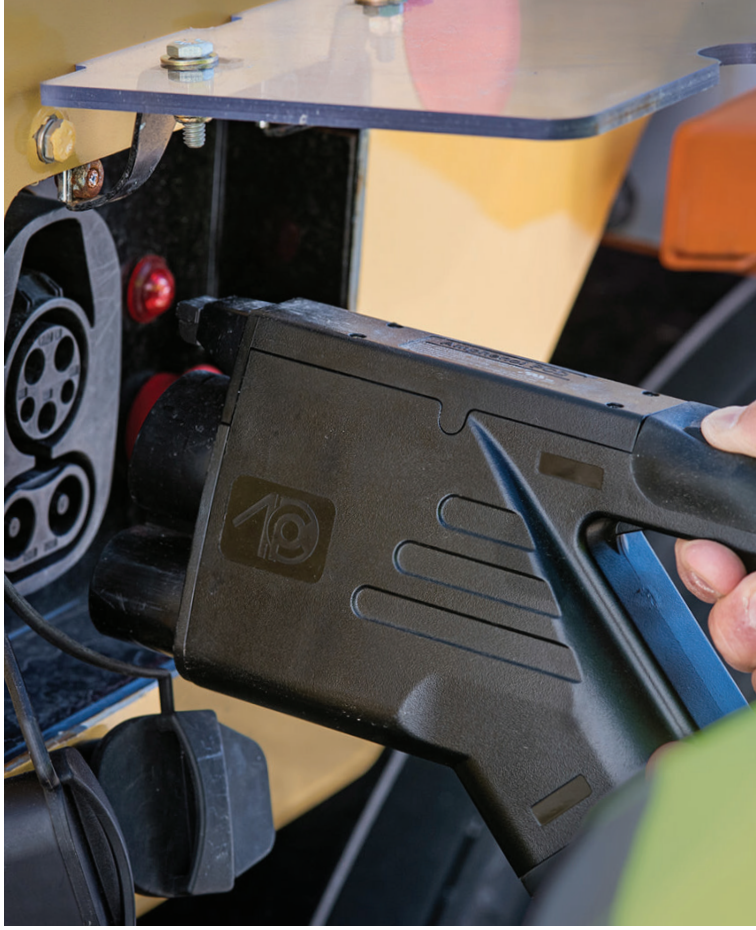
Sustainability goals mean little without metrics to prove progress.

- [ ] **Baseline Data Collected**
  Fuel use, emissions, and idle-time benchmarks are established.
- [ ] **KPIs Defined**
  Metrics such as uptime, CO_2 per truck, and energy cost per move are tracked consistently.
- [ ] **Sustainability Reporting Enabled**
  Your systems (like Shuntware®) capture and visualize environmental impact data in real time.
- [ ] **Results Reviewed Regularly**
  Data drives continuous improvement and ongoing alignment with ESG targets.

5. Pilot & Scale Strategy

Electrification is most successful when it starts with proof and scales with consistency.

- [ ] **Pilot Yard Selected**
  A representative site is chosen to validate performance under real operating conditions.
- [ ] **Pilot Metrics Defined**
  Targets for uptime, cost savings, and emissions reduction are set before launch.
- [ ] **Scalability Plan Created**
  Processes, training, and technology are ready to replicate success across your network.
- [ ] **Vendor & Partner Alignment Complete**
  EV suppliers, utility partners, and NSSL teams are coordinated for rollout support.



Scoring Your Readiness

0-9 Checkmarks	Start with an NSSL EV Readiness Consultation to build your roadmap.
10-14 Checkmarks	You're close — address the remaining gaps and schedule an NSSL assessment.
15-20 Checkmarks	You're ready to move forward with your EV pilot. NSSL can help you with a successful rollout.

Start Planning Your EV Rollout Today

Schedule your EV yard assessment with NSSL to build a cleaner, smarter operation at **nationalshunt.com**.