This workbook provides a basis for an EV Ready Plan. The consultant will provide the applicant with an EV Ready Plan (in their own report format) and a copy of this workbook.

Your EV Ready Plan must include the following elements:

1. Property and Company Details

EV Ready Plan ID (provid	led by Efficiency Nova Scotia):	
a. Date the EV Ready Pla	n was prepared:	
b. Building Address (EV I	Ready Plan is for this building):	
c. Applicant Information	1	
Business Name		
d. Building Contact		
Name	First	Last
Position		
Contact Phone Number		
Contact Email		
e. EV Ready Consultant		
Name	First	Last
Qualification		
Company Name		
Contact Phone Number		
Contact Email		





I understand the EV Ready Plan program requirements.		
I confirm the recommended solution program requirements, applicable e bylaws.		
I have provided the applicant with a s	signed and stam	ped EV Ready Plan.
	Date	

2. Building Information

a. Project Type		
Existing Building Nev	v Construction Building	
b. Building Type		
Rental Building Cor	ndo Building	
Other If other, list:		
c. Number of residential units ir	n the building:	
d. Number of residential parkin	g spaces:	
e. Number of residential parkin	g spaces to be made EV Ready:	
f. Number of commercial/visito	or parking spaces owned by the residential building:	
g. Number of commercial/visite	or parking spaces to be made EV Ready:	
h. Expected number of EVSE to I	be installed within one year:	
j. Additional information about	the property:	



3. Electrical Capacity Assessment

The electrical capacity assessment determines the current state of the existing main service of the building.

This assessment only includes the existing system and does not included any recommended electrical upgrades, or future EVSE loads.

All units of measure must be kilowatt (kW).

a. What is the existing electrical main service size (kW)?
b. What is the peak demand on the existing main service (kW)?
c. Describe how the peak kW demand was determined (provide additional information on electrical system if necessary).
d. What is the spare capacity of the existing main, prior to EVSE installation (kW)?



4. Charging Performance Assessment

A charging performance assessment determines the charging performance (kW) provided to each EV Ready parking space during an event where all EV Ready parking spaces are providing EV charging. Selecting a charging performance is typically a compromise between performance and implementation costs.

The charging performance (kW) should provide a sufficient recharge for an average commute of a building resident, should consider estimated commuting distances expected based on the building's location (urban/rural), factors for climate, average vehicle efficiencies, demographics, etc.

For this rebate program, each EV Ready parking space should provide a charging performance equal or greater than 1.9 kW (or 15.2 kWh over an eight-hour overnight period). A higher charging performance can be selected based on the assessment, and/or the owners desire to provide higher charging performance for building residents.

charging performance for building residents.
a. Describe the charging performance assessment you have utilized to determine the minimum charging performance for each parking space, including:
What is the estimated average daily distance travelled by vehicles for the building, and how was this determined.
Describe any guidelines, regulations, or standards used and why they were referenced. If you are using an alternative approach to determine charging performance, describe it here.
b. What is the minimum kW required for each EV Ready parking space? (e.g. minimum continuous KW, or kWh over an eight hour overnight period).
c. What is the estimated average kilometers charged per hour at this minimum kW level?



5. Recommended EV Ready Solution and Implementation Options

The EV Ready Plan must include one recommended solution that describes the building owner's preferred option for making the parking spaces EV Ready. In addition, the plan should include a recommendation on using a phased approach to installing infrastructure and charging stations in a manner that aligns with the recommended solution.

If a service upgrade is necessary for the recommended solution, the consultant should engage the electrical utility for information on potential upgrade options and associated cost estimates, etc. If some information cannot be obtained, the consultant should provide their best estimates, and recommendations based on their experience, and can contact Efficiency Nova Scotia with questions related to EV Ready Plan reports.

A single line diagram for the recommended EV charging system must be provided. This diagram should provide relevant details from the main electrical service to the EVSE. Any phased installation approach should be indicated on the single line diagram.



c. Identify the EVSE to breaker ratio of the recommended solution (e.g., 5 chargers per 50A breaker).
Explain why this solution was chosen.
d. Describe the charging performance (kW) of the recommended solution. What is the minimum kW provided and under what conditions does this occur. Describe if and how the performance changes based on the number EVs charging at one time, or other factors. What is the maximum performance (kW) and under what conditions does this occur.
e. What is the utility tariff (rate) supplying the EVSE? Is it the same rate for all EV Ready spaces?
f. What is the total maximum potential EV charging system load based on the
recommended solution (kW)?
g. What would be the main service spare capacity after EVSE installation (kW)?



h. Describe if and how the existing service accommodate the recommended solution.
j. Is a service upgrade required to accommodate the recommended solution? If so, describe the service upgrade required.
If a service upgrade is required, was the electrical utility input included to determine feasibility and cost estimates?
Yes No
k. If there are existing EV chargers installed, how they will be integrated into the new EV charging
system, including load analysis and the effects on the main distribution.
system, including load analysis and the effects on the main distribution. I. Describe if and how the EVSE will impact the existing telecom/network infrastructure, and if the
system, including load analysis and the effects on the main distribution. I. Describe if and how the EVSE will impact the existing telecom/network infrastructure, and if the
system, including load analysis and the effects on the main distribution. I. Describe if and how the EVSE will impact the existing telecom/network infrastructure, and if the
system, including load analysis and the effects on the main distribution. I. Describe if and how the EVSE will impact the existing telecom/network infrastructure, and if the



m. Identify the costs associated with the telecom/network hardware and infrastructure required for the recommended solution. For designs where integration with an existing Energy Management System or establishment of a new Energy Management System is intended, the electrical infrastructure should include all communications equipment, control systems installation, licensing, and permitting required to operate the system.
n. What EV charging network provider(s) and what Level 2 networked EVSE model(s) will be compatible with the recommended design solution? If multiple EVSE models are compatible, describe any requirements that they must meet in order to be compatible. Describe any requirements (for example: OCPP certification) that an EVSE must have in order to be compatible with the recommended solution.
o. Does this EV Ready Plan and the recommended solution meet the program requirements?
Yes No
If not, the EV Ready Plan may still be eligible for rebates. Identify what requirements are not achieved, explain why meeting the requirement is not feasible.



p. Provide a recommendation on implementing the recommended solution using phased approach. For example, describe if and how, EVSE can be added on existing infrastructure in a manner that aligns with the recommended solution. Provide details for each phase, including the number of charging stations that can be added,
their location, how they are supplied, electrical upgrades required, any other key details, etc.
q. Has an engineering single line diagram for the recommended solution been completed and
provided to the applicant?
Yes No



6. Cost Estimates Sufficient for Budgeting Purposes

Provide a budgetary cost estimate for the recommended solution. Total project cost should include electrical infrastructure, telecom/network upgrades if required, and service upgrades if required. EVSE cost should not be included.

required. Eval cost should not be included.
a. Total project cost (excluding taxes):
b. Provide a high level breakdown of the total project cost into building electrical infrastructure upgrades, telecom/network upgrades, main service upgrades. EVSE cost (if applicable) can be provided as a separate cost.
In addition to this summary breakdown, a detailed cost estimate can be attached as a separate document if available.
If a phased installation approach has been recommended, include budgetary costs for each of the phases that were provided.

